

# NSP3 Rabbit pAb

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Catalog # AP55233

## Product Information

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| <b>Application</b>             | WB, IHC-P, IHC-F, IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Primary Accession</b>       | <a href="#">Q8N5H7</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Predicted</b>               | Rat, Dog, Human, Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Calculated MW</b>           | 94411                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human NSP3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Epitope Specificity</b>     | 761-860/860                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>SUBCELLULAR LOCATION</b>    | Cytoplasm. Membrane. Associated with the membrane when EGF-stimulated. Found at ruffling membranes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Background Descriptions</b> | Tumor necrosis factor (TNF) is a pleiotropic cytokine whose function is mediated through two distinct cell surface receptors (1,2). These receptors, designated TNF-R1 and TNF-R2, are expressed on most cell types (1,3). The majority of TNF functions are primarily mediated through TNF-R1 (1,4). FAN (for factor associated with neutral sphingomyelinase (N-SMase) activation) is an intermediate protein that interacts with TNF-R1 to initiate TNF signaling events. FAN binds to TNF-R1 at the cytoplasmic NSD (N-SMase activating domain), which results in the initiation of the N-SMase pathway (5). N-SMase has been shown to be involved in TNF-induced Raf-1 activation (6). FAN contains four carboxy-terminal WD-repeat domains which appear to be involved in protein-protein interaction. The FAN WD-repeats may mediate the interaction between FAN and TNF-R1 (5). |

## Additional Information

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| <b>Gene ID</b>     | 10044                                                                                                                                                                                      |
| <b>Other Names</b> | SH2 domain-containing protein 3C, Cas/HEF1-associated signal transducer, Chat-H, Novel SH2-containing protein 3, SH2 domain-containing Eph receptor-binding protein 1, SHEP1, SH2D3C, NSP3 |
| <b>Dilution</b>    | WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000                                                                                             |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When                                                                                                                      |

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## Protein Information

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| <b>Name</b>              | SH2D3C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b>          | NSP3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Function</b>          | Acts as an adapter protein that mediates cell signaling pathways involved in cellular functions such as cell adhesion and migration, tissue organization, and the regulation of the immune response (PubMed: <a href="#">12432078</a> , PubMed: <a href="#">20881139</a> ). Plays a role in integrin- mediated cell adhesion through BCAR1-CRK-RAPGEF1 signaling and activation of the small GTPase RAP1 (PubMed: <a href="#">12432078</a> ). Promotes cell migration and invasion through the extracellular matrix (PubMed: <a href="#">20881139</a> ). Required for marginal zone B-cell development and thymus-independent type 2 immune responses (By similarity). Mediates migration and adhesion of B cells in the splenic marginal zone via promoting hyperphosphorylation of NEDD9/CASL (By similarity). Plays a role in CXCL13-induced chemotaxis of B-cells (By similarity). Plays a role in the migration of olfactory sensory neurons (OSNs) into the forebrain and the innervation of the olfactory bulb by the OSN axons during development (By similarity). Required for the efficient tyrosine phosphorylation of BCAR1 in OSN axons (By similarity). |
| <b>Cellular Location</b> | Cytoplasm. Cell membrane; Peripheral membrane protein {ECO:0000250 UniProtKB:Q9QZS8}. Cell projection, axon {ECO:0000250 UniProtKB:Q9QZS8}. Cell projection, ruffle membrane {ECO:0000250 UniProtKB:Q9QZS8}. Note=Associated with the membrane when EGF-stimulated (By similarity). Expressed at the cortical actin ring in B cells (By similarity). {ECO:0000250 UniProtKB:Q9QZS8}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Tissue Location</b>   | [Isoform 1]: Ubiquitously expressed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Background

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This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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