

# EHD2 Rabbit pAb

Catalog # AP97502

## Product Information

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| <b>Application</b>             | IHC-P, IHC-F, IF, E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Primary Accession</b>       | <a href="#">Q9NZN4</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Other Accession</b>         | <a href="#">Q9NZN4</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Calculated MW</b>           | 61161                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human EHD2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Epitope Specificity</b>     | 451-543/543                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <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>SIMILARITY</b>              | Contains 1 EF-hand domain. Contains 1 EH domain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <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> | This gene encodes a member of the EH domain-containing protein family. These proteins are characterized by a C-terminal EF-hand domain, a nucleotide-binding consensus site at the N terminus and a bipartite nuclear localization signal. The encoded protein interacts with the actin cytoskeleton through an N-terminal domain and also binds to an EH domain-binding protein through the C-terminal EH domain. This interaction appears to connect clathrin-dependent endocytosis to actin, suggesting that this gene product participates in the endocytic pathway. [provided by RefSeq, Jul 2008] |

## Additional Information

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| <b>Gene ID</b>     | 30846                                                                                                                                                                                           |
| <b>Other Names</b> | PAST2; C130052H20Rik; MGEPS; EHD2_HUMAN; EHD2; PAST homolog 2; EHD2_MOUSE; EHD2_RAT; EH domain containing 2                                                                                     |
| <b>Dilution</b>    | IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500<br>0-10000                                                                                                            |
| <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> | EHD2 ( <a href="#">HGNC:3243</a> ) |
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| <b>Function</b>          | ATP- and membrane-binding protein that controls membrane reorganization/tubulation upon ATP hydrolysis (By similarity). Plays a role in membrane trafficking between the plasma membrane and endosomes (PubMed: <a href="#">17233914</a> ). Important for the internalization of GLUT4. Required for fusion of myoblasts to skeletal muscle myotubes. Required for normal translocation of FER1L5 to the plasma membrane (By similarity). Regulates the equilibrium between cell surface-associated and cell surface-dissociated caveolae by constraining caveolae at the cell membrane (PubMed: <a href="#">25588833</a> ).                                                                          |
| <b>Cellular Location</b> | Cell membrane; Peripheral membrane protein {ECO:0000250 UniProtKB:Q8BH64}; Cytoplasmic side {ECO:0000250 UniProtKB:Q8BH64}. Membrane, caveola; Peripheral membrane protein {ECO:0000250 UniProtKB:Q8BH64}; Cytoplasmic side {ECO:0000250 UniProtKB:Q8BH64}. Endosome membrane {ECO:0000250 UniProtKB:Q4V8H8}; Peripheral membrane protein {ECO:0000250 UniProtKB:Q4V8H8}; Cytoplasmic side {ECO:0000250 UniProtKB:Q4V8H8}. Cytoplasm, cytosol {ECO:0000250 UniProtKB:Q8BH64}. Note=Colocalizes with GLUT4 in intracellular tubulovesicular structures that are associated with cortical F-actin. Colocalizes with FER1L5 at plasma membrane in myoblasts and myotubes. {ECO:0000250 UniProtKB:Q8BH64} |
| <b>Tissue Location</b>   | Highly expressed in heart and moderately expressed in placenta, lung, and skeletal muscle.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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