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# TAB2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21381b

## Product Information

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| **Application** | WB, E |
| **Primary Accession** | Q9NYJ8 |
| **Reactivity** | Human, Rat, Mouse |
| **Predicted** | Bovine, Canine, Rabbit, Chicken |
| **Host** | Rabbit |
| **Clonality** | polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB52974 |
| **Calculated MW** | 76494 |

## Additional Information

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| **Gene ID** | 23118 |
| **Other Names** | TGF-beta-activated kinase 1 and MAP3K7-binding protein 2, Mitogen-activated protein kinase kinase kinase 7-interacting protein 2, TAK1-binding protein 2, TAB-2, TGF-beta-activated kinase 1-binding protein 2, TAB2, KIAA0733, MAP3K7IP2 |
| **Target/Specificity** | This TAB2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 646-680 amino acids from the C-terminal region of human TAB2. |
| **Dilution** | WB~~1:2000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | TAB2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | TAB2 {ECO:0000303\|PubMed:10882101, ECO:0000312\|HGNC:HGNC:17075} |
| **Function** | Adapter required to activate the JNK and NF-kappa-B signaling pathways through the specific recognition of 'Lys-63'-linked polyubiquitin chains by its |

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| | RanBP2-type zinc finger (NZF) (PubMed:10882101, PubMed:11460167, PubMed:15327770, PubMed:22158122, PubMed:27746020, PubMed:33184450, PubMed:36681779). Acts as an adapter linking MAP3K7/TAK1 and TRAF6 to 'Lys-63'-linked polyubiquitin chains (PubMed:10882101, PubMed:11460167, PubMed:15327770, PubMed:22158122, PubMed:27746020). The RanBP2-type zinc finger (NZF) specifically recognizes 'Lys-63'-linked polyubiquitin chains unanchored or anchored to the substrate proteins such as RIPK1/RIP1 and RIPK2: this acts as a scaffold to organize a large signaling complex to promote autophosphorylation of MAP3K7/TAK1, and subsequent activation of I-kappa-B-kinase (IKK) core complex by MAP3K7/TAK1 (PubMed:15327770, PubMed:18079694, PubMed:22158122). Also recognizes and binds Lys-63'-linked polyubiquitin chains of heterotypic 'Lys-63'-/'Lys-48'-linked branched ubiquitin chains (PubMed:27746020). Regulates the IL1-mediated translocation of NCOR1 out of the nucleus (By similarity). Involved in heart development (PubMed:20493459). |
| **Cellular Location** | Membrane; Peripheral membrane protein. Endosome membrane; Peripheral membrane protein. Lysosome membrane; Peripheral membrane protein. Cytoplasm, cytosol. Note=Following IL1 stimulation, translocation occurs from the membrane to cytosol (PubMed:10882101) Interaction with TRIM38 promotes translocation from cytosol to endosome and lysosome (PubMed:24434549). |
| **Tissue Location** | Widely expressed. In the embryo, expressed in the ventricular trabeculae, endothelial cells of the conotruncal cushions of the outflow tract and in the endothelial cells lining the developing aortic valves. |

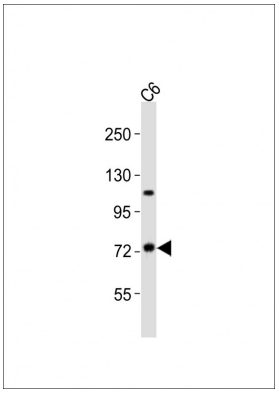
## Background

Adapter linking MAP3K7/TAK1 and TRAF6. Promotes MAP3K7 activation in the IL1 signaling pathway. The binding of 'Lys-63'- linked polyubiquitin chains to TAB2 promotes autophosphorylation of MAP3K7 at 'Thr-187'. Involved in heart development.

## References


Takaesu G.,et al.Mol. Cell 5:649-658(2000).
Nagase T.,et al.DNA Res. 5:277-286(1998).
Nakajima D.,et al.DNA Res. 9:99-106(2002).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.


## Images




Anti-TAB2 Antibody (C-term)at 1:2000 dilution + C6 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 76 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.