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MAP3K7IP3 Rabbit pAb

Catalog # AP98494

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q8N5C8
Other Accession	Q8N5C8
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	78653
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MAP3K7IP3
Epitope Specificity	601-712/712
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 CUE domain.Contains 1 RanBP2-type zinc finger.
SUBUNIT	Interacts with TAB1, TAB2, MAP3K7, TRAF2 and TRAF6. The minimal TAB3-containing complex (TAB1-MAP3K7-TAB3) appears not to contain TAB2. However, it seems sensible to consider that TAB2 may also join this complex and may act in a cooperative manner with TAB3. Interacts with WDR34 (via the WD domains). Interacts with RBCK1. Binds 'Lys-63'-linked polyubiquitin chains. Interacts with TRIM5.
Post-translational modifications	Ubiquitinated; following IL1 stimulation or TRAF6 overexpression.Phosphorylated at Ser-506 by MAPKAPK2 and MAPKAPK3 following IL1 treatment.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The product of this gene functions in the NF-kappaB signal transduction pathway. The encoded protein, and the similar and functionally redundant protein MAP3K7IP2/TAB2, forms a ternary complex with the protein kinase MAP3K7/TAK1 and either TRAF2 or TRAF6 in response to stimulation with the pro-inflammatory cytokines TNF or IL-1. Subsequent MAP3K7/TAK1 kinase activity triggers a signaling cascade leading to activation of the NF-kappaB transcription factor. The human genome contains a related pseudogene. Alternatively spliced transcript variants have been described, but their biological validity has not been determined.

Additional Information

Gene ID	257397
Other Names	MAP3K7IP3; NAP1; 4921526G09Rik; mKIAA4135; TAB3_HUMAN; TAB3; Mitogen-activated protein kinase kinase kinase 7-interacting protein 3; NF-kappa-B-activating protein 1; TAK1-binding protein 3 (TAB-3);

	TGF-beta-activated kinase 1-binding protein 3; TAB3_MOUSE; Kiaa4135; TGF-beta activated kinase 1 (MAP3K7) binding protein 3; mitogen-activated protein kinase kinase kinase 7 interacting protein 3; TGF-beta activated kinase 1/MAP3K7 binding protein 3; TGF-beta activated kinase 1 and MAP3K7 binding protein 3; TAK1 binding protein 3
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	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

Name	TAB3 {ECO:0000303|PubMed:14633987, ECO:0000312|HGNC:HGNC:30681}
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 RanBP2-type zinc finger (NZF) (PubMed:14633987, PubMed:14766965, PubMed:15327770, PubMed:22158122). Acts as an adapter linking MAP3K7/TAK1 and TRAF6 to 'Lys-63'-linked polyubiquitin chains (PubMed:14633987, PubMed:14766965, PubMed:15327770, PubMed:22158122, PubMed:36593296). 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).
Tissue Location	Widely expressed. Constitutively overexpressed in certain tumor tissues. [Isoform 2]: Minor transcript.

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