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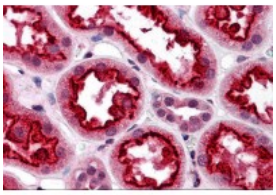
TAB3 Antibody

CATALOG NUMBER: 3391



Immunohistochemistry of TAB3 in human kidney tissue with TAB3 antibody at 5 ug/mL.

Specifications

SPECIES REACTIVITY:	Human
HOMOLOGY:	Predicted species reactivity based on immunogen sequence: Mouse: (92%)
TESTED APPLICATIONS:	ELISA, IHC-P
APPLICATIONS:	TAB3 antibody can be used for detection of TAB3 by immunohistochemistry at 5 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 10-401 - Human Kidney Tissue Slide
SPECIFICITY:	TAB3 antibody is human specific. TAB3 antibody is predicted not to cross-react with other TAB proteins.
IMMUNOGEN:	TAB3 antibody was raised against a 13 amino acid synthetic peptide near the amino terminus of human TAB3. The immunogen is located within amino acids 40 - 90 of TAB3.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	TAB3 Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	TAB3 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	TAB3 antibody can be stored at 4˚C for three months and -20˚C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	TAB3 Antibody: NAP1, MAP3K7IP3, TGF-beta-activated kinase 1 and MAP3K7-binding protein 3, Mitogen-

	activated protein kinase kinase kinase 7-interacting protein 3, TAB-3
ACCESSION NO.:	NP_690000
PROTEIN GI NO.:	98991767
OFFICIAL SYMBOL:	TAB3
GENE ID:	257397

Background

BACKGROUND:	TAB3 Antibody: TAB3 functions in the NF-kappaB signal transduction pathway. It and the similar and functionally redundant protein TAB2, form a ternary complex with the protein kinase TAK1 and either TRAF2 or TRAF6 in response to stimulation with the pro-inflammatory cytokines TNF or IL-1. Subsequent TAK1 kinase activity triggers a signaling cascade leading to activation of the NF-kappaB transcription factor. Recent experiments have shown that TAB2 and the related protein TAB3 constitutitvely interact with the autophagy mediator Beclin-1; upon induction of autophagy, these proteins dissociate from Beclin-1 and bind TAK1. Overexpression of TAB2 and TAB3 inhibit autophagy, while their depletion triggers it, suggesting that TAB2 and TAB3 act as a control point for autophagy.
REFERENCES:	1) Cheung PC, Nebreda AR, and Cohen P. TAB3, a new binding partner of the protein kinase TAK1. Biochem. J. 2004; 378:27-34.
	2) Besse A, Lamothe B, Campos AD, et al. TAK1-dependent signaling requires functional interaction with TAB2/TAB3. J. Biol. Chem. 2007; 282:3918-28.
	3) Criollo A, Niso-Santano M, Malik SA, et al. Inhibition of autophagy by TAB2 and TAB3. EMBO J. 2011; 30:4908-20.

FOR RESEARCH USE ONLY

December 12, 2016