

# TAB2 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1475a

## Product Information

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<b>Application</b>	WB, FC, E
<b>Primary Accession</b>	<a href="#">Q9NYJ8</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	3B5
<b>Isotype</b>	IgG1
<b>Calculated MW</b>	76494
<b>Description</b>	The protein encoded by this gene is an activator of MAP3K7/TAK1, which is required for the IL-1 induced activation of nuclear factor kappaB and MAPK8/JNK. This protein forms a kinase complex with TRAF6, MAP3K7 and TAB1, thus serves as an adaptor linking MAP3K7 and TRAF6. This protein, TAB1, and MAP3K7 also participate in the signal transduction induced by TNFSF11/RANKL through the activation of the receptor activator of NF-kappaB (TNFRSF11A/RANK), which may regulate the development and function of osteoclasts.
<b>Immunogen</b>	Purified recombinant fragment of human TAB2 expressed in E. Coli.
<b>Formulation</b>	Ascitic fluid containing 0.03% sodium azide.

## Additional Information

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<b>Gene ID</b>	23118
<b>Other Names</b>	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
<b>Dilution</b>	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~N/A
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	TAB2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	TAB2 {ECO:0000303 PubMed:10882101, ECO:0000312 HGNC:HGNC:17075}
<b>Function</b>	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: <a href="#">10882101</a> , PubMed: <a href="#">11460167</a> , PubMed: <a href="#">15327770</a> , PubMed: <a href="#">22158122</a> , PubMed: <a href="#">27746020</a> , PubMed: <a href="#">33184450</a> , PubMed: <a href="#">36681779</a> ). Acts as an adapter linking MAP3K7/TAK1 and TRAF6 to 'Lys-63'-linked polyubiquitin chains (PubMed: <a href="#">10882101</a> , PubMed: <a href="#">11460167</a> , PubMed: <a href="#">15327770</a> , PubMed: <a href="#">22158122</a> , PubMed: <a href="#">27746020</a> ). 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: <a href="#">15327770</a> , PubMed: <a href="#">18079694</a> , PubMed: <a href="#">22158122</a> ). Also recognizes and binds Lys-63'-linked polyubiquitin chains of heterotypic 'Lys-63'-/'Lys-48'-linked branched ubiquitin chains (PubMed: <a href="#">27746020</a> ). Regulates the IL1-mediated translocation of NCOR1 out of the nucleus (By similarity). Involved in heart development (PubMed: <a href="#">20493459</a> ).
<b>Cellular Location</b>	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).
<b>Tissue Location</b>	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.

## References

1. J Clin Endocrinol Metab. 2006 Mar;91(3):1056-61. 2. Sci STKE. 2006 Oct 17;2006(357):re13. 3. Am J Hum Genet. 2010 Jun 11;86(6):839-49.

## Images

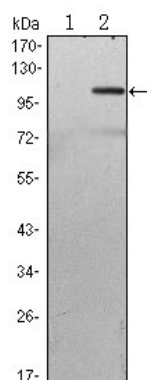
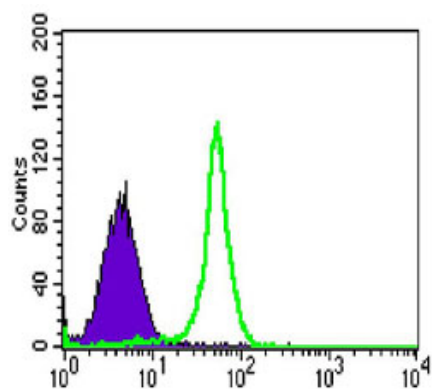


Figure 1: Western blot analysis using TAB2 mAb against HEK293 (1) and TAB2(AA: 1-300)-hIgGFc transfected HEK293 (2) cell lysate.

Figure 2: Flow cytometric analysis of HL-60 cells using TAB2 mouse mAb (green) and negative control (purple).



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