

Anti-TAB1 Antibody

Mouse Monoclonal Antibody

Catalog # AP53465

Product Information

Primary Accession	Q15750
Other Accession	NM_006116
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Immunogen	Purified recombinant human TAB1 protein expressed in E.coli.
Purification	Affinity purified
Calculated MW	54644

Additional Information

Gene ID	10454
Other Names	2310012M03Rik;3'-Tab1;MAP3K7IP1;MAP3K7IP1;MGC57664;Mitogenactivated protein kinase kinase kinase 7 interacting protein 1;Mitogen-activated protein kinase kinase 7-interacting protein 1;TAB1;TAB1;TAB1_HUMAN;TAK1 binding protein 1;TAK1-binding protein 1;TGF-beta activated kinase 1 binding protein 1;TGF-beta activated kinase 1/MAP3K7 binding protein 1;TGF-beta-activated kinase 1 and MAP3K7-binding protein 1;TGF-beta-activated kinase 1-binding protein 1;Transforming growth factor beta activated kinase binding protein 1.
Format	Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.09% (W/V) sodium azide and 50% glycerol.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	TAB1
Synonyms	MAP3K7IP1
Function	Key adapter protein that plays an essential role in JNK and NF-kappa-B activation and proinflammatory cytokines production in response to stimulation with TLRs and cytokines (PubMed: 22307082 , PubMed: 24403530). Mechanistically, associates with the catalytic domain of MAP3K7/TAK1 to trigger MAP3K7/TAK1 autophosphorylation leading to its full activation (PubMed: 10838074 , PubMed: 25260751 , PubMed: 37832545). Similarly, associates with MAPK14 and triggers its autophosphorylation and subsequent activation (PubMed: 11847341 , PubMed: 29229647). In turn, MAPK14

phosphorylates TAB1 and inhibits MAP3K7/TAK1 activation in a feedback control mechanism (PubMed:[14592977](#)). Also plays a role in recruiting MAPK14 to the TAK1 complex for the phosphorylation of the TAB2 and TAB3 regulatory subunits (PubMed:[18021073](#)).

Cellular Location

Cytoplasm, cytosol. Endoplasmic reticulum membrane; Peripheral membrane protein; Cytoplasmic side. Note=Recruited to the endoplasmic reticulum following interaction with STING1

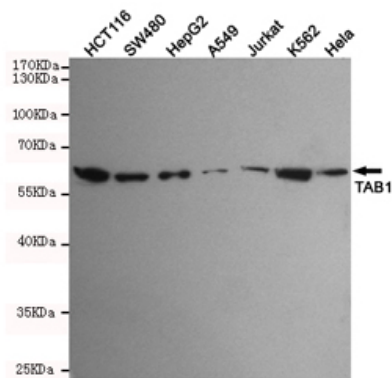
Tissue Location

Ubiquitous..

Background

May be an important signaling intermediate between TGFB receptors and MAP3K7/TAK1. May play an important role in mammalian embryogenesis.

Images



Western blot detection of TAB1 in HCT116,SW480,HepG2,A549,Jurkat,K562 and Hela cell lysates using TAB1 mouse mAb (1:1000 diluted).Predicted band size:60KDa.Observed band size:60KDa.

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