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TAB1(N-terminus) Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52734

Product Information

Primary Accession	Q15750
Host	Mouse
Clonality	Monoclonal
Calculated MW	54644

Additional Information

Gene ID	10454
Other Names	2310012M03Rik;3'-Tab1;MAP3K7IP 1;MAP3K7IP1;MGC57664;Mitogen activated protein kinase kinase kinase 7 interacting protein 1;Mitogen-activated protein kinase kinase kinase 7-interacting protein 1;TAB 1;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 in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.09% (W/V) sodium azide, 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..

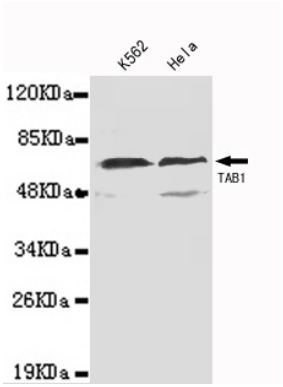
Background

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

References

Shibuya H.,et al.Science 272:1179-1182(1996).
Ge B.,et al.J. Biol. Chem. 278:2286-2293(2003).
Dunham I.,et al.Nature 402:489-495(1999).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Ninomiya-Tsuji J.,et al.Nature 398:252-256(1999).

Images



Western blot detection of TAB1(N-terminus) in K562 and Hela lysates using TAB1(N-terminus) mouse mAb (1:1000 diluted).Predicted band size: 55KDa.Observed band size: 55KDa.