

TAB1 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10514**Specification**

TAB1 Antibody - Product Information

Application	WB
Primary Accession	Q15750
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	54644

TAB1 Antibody - Additional Information**Gene ID** 10454

Application & Usage	Western blotting (1-4 µg/ml). The optimal concentrations should be determined individually. The antibody recognizes TAB1 in samples from human, mouse and rat origins. BaF3 cells can be used as positive controls. A ~60 kDa band should be detected.
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Other Names

ANTI TAB1 , TAK1 , TGF beta activated kinase 1 , MGC57664 , MAP3K7IP1

Target/Specificity

TAB 1

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) peptide affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 50% glycerol, 1% BSA, and 0.02% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

TAB1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TAB1 Antibody - 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). Plays also 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..

TAB1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TAB1 Antibody - Images**TAB1 Antibody - Background**

TAB1 (TAK1 binding protein 1) is an adaptor protein that can activate TAK1 in vivo through phosphorylation of TAK1, a mitogen-activated protein kinase kinase kinase. Once activated TAK1 phosphorylates MAPK kinase MKK4 and MKK3/6, which activate p38 MAPK and JNK, respectively.