

TAB1 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS11474**Specification**

TAB1 Antibody - Product Information

Application	ICC, IF, WB, IHC
Primary Accession	Q15750
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55kDa KDa

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

TGF-beta-activated kinase 1 and MAP3K7-binding protein 1, Mitogen-activated protein kinase kinase kinase 7-interacting protein 1, TGF-beta-activated kinase 1-binding protein 1, TAK1-binding protein 1, TAB1, MAP3K7IP1

Target/Specificity

synthetic peptide corresponding to 13 amino acids in the center of human TAB1

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

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

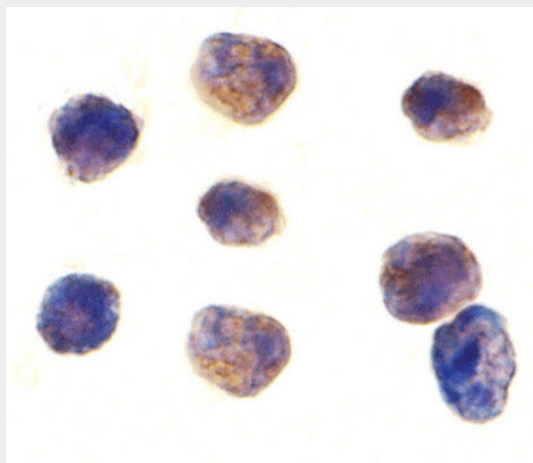
Ubiquitous..

TAB1 Antibody - Protocols

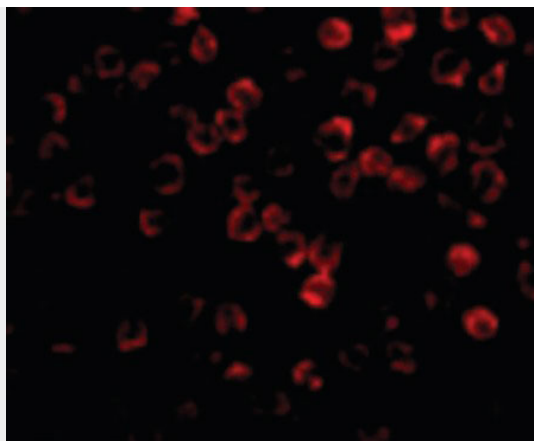
Provided below are standard protocols that you may find useful for product applications.

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

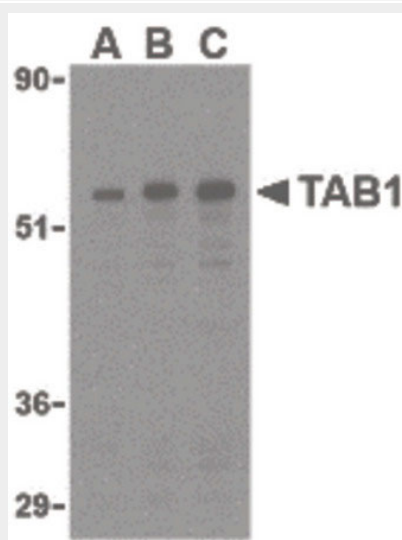
TAB1 Antibody - Images



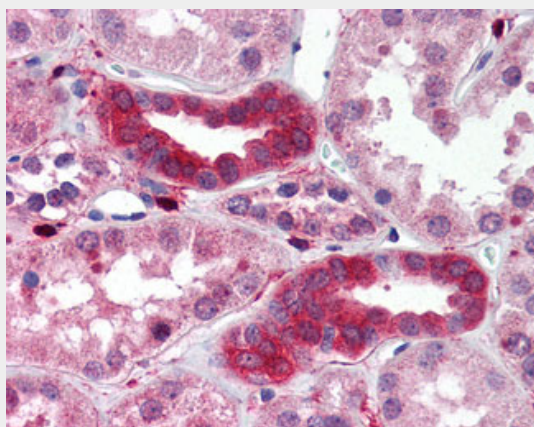
Immunocytochemistry of TAB1 in K562 cells with TAB1 antibody at 1 ug/ml.



Immunofluorescence of TAB1 in 3T3 cells with TAB1 antibody at 2 ug/ml.



Western blot of TAB1 in 3T3 cell lysate with TAB1 antibody at (A) 0.5, (B) 1, and (C) 2 ug/ml.



Anti-TAB1 / MAP3K7IP1 antibody IHC of human kidney.

TAB1 Antibody - Background

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

TAB1 Antibody - 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).