A3306

Leader in Biomolecular Solutions for Life Science

TAB1 Rabbit mAb

Catalog No.: A3306 Recombinant

Basic Information

Observed MW

Calculated MW

55kDa

55kDa

Category

Applications

WB, IF/ICC, ELISA

Cross-Reactivity Human, Mouse, Rat

CloneNo number

ARC1943



Background

The protein encoded by this gene was identified as a regulator of the MAP kinase kinase kinase kinase MAP3K7/TAK1, which is known to mediate various intracellular signaling pathways, such as those induced by TGF beta, interleukin 1, and WNT-1. This protein interacts and thus activates TAK1 kinase. It has been shown that the C-terminal portion of this protein is sufficient for binding and activation of TAK1, while a portion of the N-terminus acts as a dominant-negative inhibitor of TGF beta, suggesting that this protein may function as a mediator between TGF beta receptors and TAK1. This protein can also interact with and activate the mitogen-activated protein kinase 14 (MAPK14/p38alpha), and thus represents an alternative activation pathway, in addition to the MAPKK pathways, which contributes to the biological responses of MAPK14 to various stimuli. Alternatively spliced transcript variants encoding distinct isoforms have been reported.

Recommended Dilutions

SMab Recombinant Monoclonal Antibody

Immunogen Information

 WB
 1:500 - 1:1000

 IF/ICC
 1:50 - 1:200

Gene ID 10454 Swiss Prot Q15750

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 405-504 of human TAB1 (Q15750).

Synonyms

3'-Tab1; MAP3K7IP1; TAB1

Contact

Product Information

www.abclonal.com

Purification Affinity purification

Storage

Source

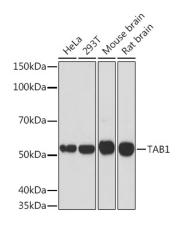
Rabbit

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

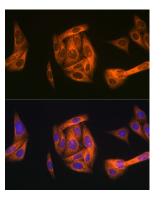
Isotype

lgG

Validation Data



Western blot analysis of extracts of various cell lines, using TAB1 Rabbit mAb (A3306) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.



Immunofluorescence analysis of U-2 OS cells using TAB1 Rabbit mAb (A3306) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.