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Datasheet for ABIN7101518

anti-TAB1 antibody

2 Images

Overview

| | |
|--------------|--|
| Quantity: | 20 µL |
| Target: | TAB1 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Monoclonal |
| Conjugate: | This TAB1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunofluorescence (IF) |

Product Details

| | |
|-------------------|---|
| Immunogen: | A synthesized peptide derived from human TAB1 |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Mouse, Rat |
| Characteristics: | Monoclonal Antibodies |
| Purification: | Affinity purification |

Target Details

| | |
|-------------------|---|
| Target: | TAB1 |
| Alternative Name: | TAB1 (TAB1 Products) |
| Background: | The protein encoded by this gene was identified as a regulator of the MAP kinase kinase kinase MAP3K7/TAK1, which is known to mediate various intracellular signaling pathways, such as |

Target Details

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. [provided by RefSeq, Jul 2008],3'-Tab1, MAP3K7IP1,Apoptosis,Apoptosis_Inhibition of Apoptosis,Cardiovascular,Cell Biology & Developmental Biology,Cell Intrinsic Innate Immunity Signaling Pathway,Immunology & Inflammation,Innate Immunity_TLR Signaling,Kinase,MAPK-P38 Signaling Pathway,NF-kB Signaling Pathway,Signal Transduction,Toll-like Receptor Signaling Pathway,Wnt/beta-Catenin Signaling Pathway,TAB1

Molecular Weight: 55 kDa

Gene ID: 10454

UniProt: [Q15750](#)

Pathways: [TLR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Activation of Innate immune Response](#), [Toll-Like Receptors Cascades](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IF,1:50 - 1:200

Restrictions: For Research Use only

Handling

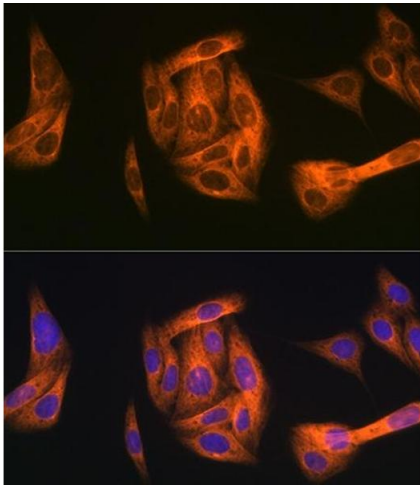
Buffer: PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

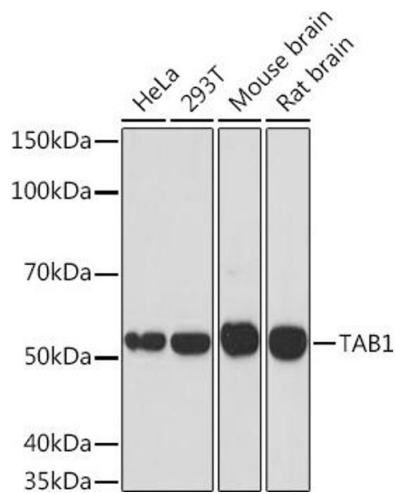
Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



Immunofluorescence

Image 1. Immunofluorescence analysis of U-2 OS cells using T Rabbit mAb (ABIN1680832, ABIN7101518, ABIN7101519 and ABIN7101520) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using T Rabbit mAb (ABIN1680832, ABIN7101518, ABIN7101519 and ABIN7101520) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.