

## Datasheet: VMA00576KT

<b>Description:</b>	TAB1 ANTIBODY WITH CONTROL LYSATE
<b>Specificity:</b>	TAB1
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	2 Westerns

### Product Details

#### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

**PrecisionAb antibodies have been extensively [validated for the western blot application](#).** The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

#### Target Species

Human

#### Species Cross Reactivity

Reacts with: Mouse

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

#### Product Form

Purified IgG - liquid

#### Preparation

20µl Mouse monoclonal antibody purified by affinity chromatography Protein G from ascites

#### Buffer Solution

HEPES buffered saline

#### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)  
1% Bovine Serum Albumin

<50% Glycerol

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**Immunogen** *E. coli*-derived recombinant human TAB1 (amino acids 1 - 300)

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**External Database Links**

**UniProt:**

[Q15750](#)    [Related reagents](#)

**Entrez Gene:**

[10454](#)    TAB1    [Related reagents](#)

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**Synonyms**    MAP3K7IP1

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**Specificity**    **Mouse anti Human TAB1 antibody** recognizes the TGF-beta-activated kinase 1 and MAP3K7-binding protein 1, also known as TAK1-binding protein 1, mitogen-activated protein kinase kinase kinase 7-interacting protein 1 or transforming growth factor beta-activated kinase-binding protein 1.

The protein encoded by TAB1 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 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). Alternatively spliced transcript variants encoding distinct isoforms have been reported (provided by RefSeq, Jul 2008).

Mouse anti Human TAB1 antibody detects a band of 60 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

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**Western Blotting**    Anti TAB1 detects a band of approximately 60 kDa in HEK293 cell lysates

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**Instructions For Use**    Please refer to the [PrecisionAb western blotting protocol](#). For additional information on secondary antibody dilution and exposure time see product web page.

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**Lysate Composition**    400µg HEK293 lysate lyophilized in RIPA buffer

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**Lysate Reconstitution**    - If using DDT reconstitute the lyophilized lysate with 190µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.  
- If using BME reconstitute the lyophilized lysate with 180µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.  
Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.

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**Storage**    Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

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Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.

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**Guarantee** As supplied, 12 months from date of despatch.

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**Acknowledgements** PrecisionAb™ is a trademark of Bio-Rad Laboratories.

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**Health And Safety Information** Material Safety Datasheet documentation #20359 #10561 available at:  
Antibody (20359): <https://www.bio-rad-antibodies.com/uploads/MSDS/20359.pdf>  
Lysate Material (10561): <https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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