


Product datasheet

Anti-TAK1 antibody ab50431

★★★★☆ 2 Abreviews 2 Images

Overview

Product name	Anti-TAK1 antibody
Description	Goat polyclonal to TAK1
Host species	Goat
Specificity	This antibody is expected to recognise isoform A (NP_003179.1) and isoform B (NP_663304.1).
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Cow, Xenopus laevis, Orangutan 
Immunogen	Synthetic peptide: C-AELDQDEKDQQNT , corresponding to internal sequence amino acids 552-564 of Human TAK1 Run BLAST with Run BLAST with

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituent: 0.5% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab50431** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆	Use a concentration of 1 - 3 µg/ml. Detects a band of approximately 76 kDa (predicted molecular weight: 67 kDa). A 1 hour primary incubation is recommended for this product. Approx 75kDa band observed in lysates of cell lines NIH/3T3 and A431.

Target

Function

Component of a protein kinase signal transduction cascade. Mediator of TRAF6 and TGF-beta signal transduction. Activates IKBKB and MAPK8 in response to TRAF6 signaling. Stimulates NF-kappa-B activation and the p38 MAPK pathway. In osmotic stress signaling, plays a major role in the activation of MAPK8/JNK, but not that of NF-kappa-B.

Sequence similarities

Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase kinase subfamily.

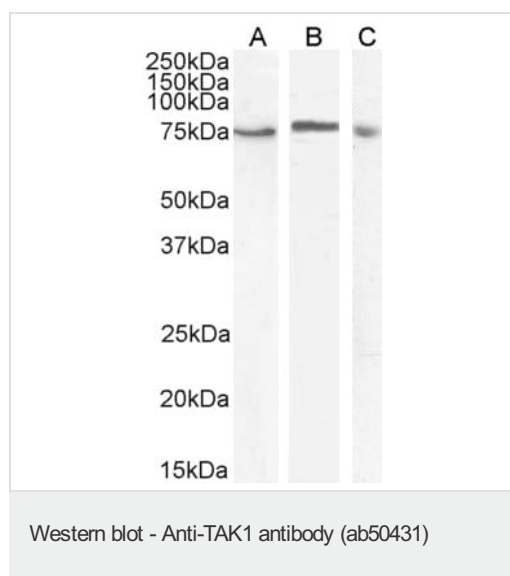
Contains 1 protein kinase domain.

Post-translational modifications

Association with TAB1/MAP3K7IP1 promotes autophosphorylation and subsequent activation. Association with TAB2/MAP3K7IP2, itself associated with free unanchored Lys-63 polyubiquitin chain, promotes autophosphorylation and subsequent activation of MAP3K7. Dephosphorylation at Thr-187 by PP2A and PPP6C leads to inactivation.

Ubiquitinated, leading to proteasomal degradation (By similarity). Requires 'Lys-63'-linked polyubiquitination for autophosphorylation and subsequent activation. 'Lys-63'-linked ubiquitination does not lead to proteasomal degradation. Deubiquitinated by CYLD, a protease that selectively cleaves 'Lys-63'-linked ubiquitin chains. Deubiquitinated by Y.enterocolitica YopP.

Images



Lanes 1-2 : Anti-TAK1 antibody (ab50431) at 1 µg/ml

Lane 3 : Anti-TAK1 antibody (ab50431) at 2 µg/ml

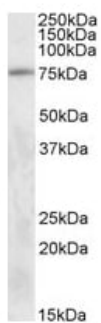
Lane 1 : HeLa cell lysate

Lane 2 : U937 cell lysate

Lane 3 : Daudi cell lysate

Lysates/proteins at 35 µg per lane.

Predicted band size: 67 kDa



Western blot - Anti-TAK1 antibody (ab50431)

Anti-TAK1 antibody (ab50431) at 0.1 μ g/ml + Cell lysates prepared from NIH/3T3 cells at 35 μ g

Developed using the ECL technique.

Predicted band size: 67 kDa

Primary antibody incubated for 1 hour.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors