

Rabbit anti-Human TAB2 Polyclonal Antibody | anti-TAB2 antibody

Anti-TAB2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125657	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

TAB2; Polyclonal Antibody; Anti-TAB2 Antibody; KIAA0733; MAP3K7IP2; TGF-beta-activated kinase 1 and MAP3K7-binding protein 2; Mitogen-activated protein kinase kinase kinase 7-interacting protein 2; TAK1-binding protein 2; TAB-2; TGF-beta-activated kinase 1-binding protein 2; TGF-beta activated kinase 1 (MAP3K7) binding protein 2; anti-TAB2 antibody

PRODUCT SPECIFICATIONS

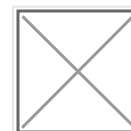
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for TAB2 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-TAB2 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human TAB2 recombinant protein (Position: Q169-K522).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of U87 cells using anti-TAB2 antibody (AAA125657). Overlay histogram showing U87 cells stained with AAA125657 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TAB2 Antibody (AAA125657, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of TAB2 using anti-TAB2 antibody (AAA125657). TAB2 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-TAB2 Antibody (AAA125657) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of TAB2 using anti-TAB2 antibody (AAA125657).TAB2 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-TAB2 Antibody (AAA125657) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of TAB2 using anti-TAB2 antibody (AAA125657).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human Hela whole cell lysatesLane 2: human A549 whole cell lysatesLane 3: human HepG2 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-TAB2 antigen affinity purified polyclonal antibody (Catalog # AAA125657) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for TAB2 at approximately 76KD. The expected band size for TAB2 is at 76KD.

ADDITIONAL INFORMATION

Related Product Information for anti-TAB2 antibody	Mitogen-activated protein kinase kinase kinase 7-interacting protein 2, also known as TAB2, is an enzyme that in humans is encoded by the MAP3K7IP2 gene. The protein encoded by this gene is an activator of MAP3K7/TAK1, which is required for the IL-1 induced activation of nuclear factor kappaB and MAPK8/JNK. This protein forms a kinase complex with TRAF6, MAP3K7 and TAB1, thus serves as an adaptor linking MAP3K7 and TRAF6. TAB2 functionally links TAK1 to TRAF6. What's more, TAB2 can act as a sensor for inflammatory signals by serving as a molecular beacon for recruitment of MEKK1(MAP3K1), which in turn mediated dismissal of the NCOR/HDAC complex and permitted derepression of AR and estrogen receptor target genes.
References	1. Takaesu, G., Kishida, S., Hiyama, A., Yamaguchi, K., Shibuya, H., Irie, K., Ninomiya-Tsuji, J., Matsumoto, K. TAB2, a novel adaptor protein, mediates activation of TAK1 MAPKKK by linking TAK1 to TRAF6 in the IL-1 signal transduction pathway. Molec. Cell 5: 649-658, 2000. 2. "Entrez Gene: MAP3K7IP2 mitogen-activated protein kinase kinase kinase 7 interacting protein 2" 3. Zhu, P., Baek, S. H., Bourk, E. M., Ohgi, K. A., Garcia-Bassets, I., Sanjo, H., Akira, S., Kotol, P. F., Glass, C. K., Rosenfeld, M. G., Rose, D. W. Macrophage/cancer cell interactions mediate hormone resistance by a nuclear receptor derepression pathway. Cell 124: 615-629, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GI #	14149669
NCBI GeneID	23118
NCBI Accession #	NP_055908
NCBI GenBank Nucleotide #	NM_015093.5
UniProt Accession #	Q9NYJ8; O94838; Q6I9W8; Q76N06; Q9UFP7; B2RCC4; E1P5A0
Molecular Weight	58,131 Da
NCBI Official Full Name	TGF-beta-activated kinase 1 and MAP3K7-binding protein 2 isoform a
NCBI Official Synonym Full Names	TGF-beta activated kinase 1/MAP3K7 binding protein 2
NCBI Official Symbol	TAB2
NCBI Official Synonym Symbols	CHTD2; TAB-2; MAP3K7IP2
NCBI Protein Information	TGF-beta-activated kinase 1 and MAP3K7-binding protein 2; TAK1-binding protein 2; mitogen-activated protein kinase kinase kinase 7-interacting protein 2
UniProt Protein Name	TGF-beta-activated kinase 1 and MAP3K7-binding protein 2
UniProt Gene Name	TAB2
UniProt Synonym Gene Names	KIAA0733; MAP3K7IP2; TAB-2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tab2-antibody-direct-elisa-flow-cytometry-immunohistochemistry-western-blot-elisa/125657>