

Rabbit TAOK1 Polyclonal Antibody | anti-TAOK1 antibody

TAOK1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325125	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

TAOK1; Polyclonal Antibody; TAOK1 Antibody; 2810468K05Rik; AU020252; D130018F14Rik; EC 2.7.11.1; FLJ14314; hKFC B; hKFC-B; KIAA1361; Kinase from chicken homolog B; MAP3K16; MARK kinase; MARKK; MGC29021; Microtubule affinity regulating kinase kinase; mKIAA1361; Prostate-derived sterile 20-like kinase 2; PSK2; Serine/threonine kinase TAO1; Serine/threonine protein kinase TAO1; Serine/threonine protein kinase TAO1 homolog; Serine/threonine-protein kinase TAO1; STE20 like kinase; STE20 like kinase PSK2; STE20-like kinase PSK2; TAO kinase 1; Taok1; TAOK1_HUMAN; Thousand and one amino acid protein 1; anti-TAOK1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	TAOK1 antibody detects endogenous levels of total TAOK1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1001
Applicable Applications for anti-TAOK1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm.
Tissue Specificity	Highly expressed in the testis, and to a lower extent also expressed in brain, placenta, colon and skeletal muscle.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA325125 staining NIH-3T3 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

AAA325125 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from NIH/3T3 cells, using TAOK1 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-TAOK1 antibody

Function: Serine/threonine-protein kinase involved in various processes such as p38/MAPK14 stress-activated MAPK cascade, DNA damage response and regulation of cytoskeleton stability. Phosphorylates MAP2K3, MAP2K6 and MARK2. Acts as an activator of the p38/MAPK14 stress-activated MAPK cascade by mediating phosphorylation and subsequent activation of the upstream MAP2K3 and MAP2K6 kinases. Involved in G-protein coupled receptor signaling to p38/MAPK14. In response to DNA damage, involved in the G2/M transition DNA damage checkpoint by activating the p38/MAPK14 stress-activated MAPK cascade, probably by mediating phosphorylation of MAP2K3 and MAP2K6. Acts as a regulator of cytoskeleton stability by phosphorylating 'Thr-208' of MARK2, leading to activate MARK2 kinase activity and subsequent phosphorylation and detachment of MAPT/TAU from microtubules. Also acts as a regulator of apoptosis: regulates apoptotic morphological changes, including cell contraction, membrane blebbing and apoptotic bodies formation via activation of the MAPK8/JNK cascade. Subunit Structure: Self-associates. Interacts with MAP2K3 (By similarity). Interacts with SPRED1 and TESK1. Interacts with MAP3K7. Post-translational Modifications: Proteolytically processed by caspase-3 (CASP3). Autophosphorylated (By similarity). Phosphorylated by ATM in response to DNA damage. Phosphorylated by LRRK2. Similarity: Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	45439370
NCBI GeneID	57551
NCBI Accession #	NP_065842.1
NCBI GenBank Nucleotide #	NM_020791.2
UniProt Accession #	Q7L7X3; Q96L75; Q9H2K7; Q9H7S5; Q9P2I6; A2RUT8; B7ZLV6
Molecular Weight	Observed: 120 kD Predicted: 117 kDa
NCBI Official Full Name	serine/threonine-protein kinase TAO1 isoform 1
NCBI Official Synonym Full Names	TAO kinase 1
NCBI Official Symbol	TAOK1
NCBI Official Synonym Symbols	PSK2; TAO1; KFC-B; MARKK; PSK-2; hKFC-B; hTAOK1; MAP3K16
NCBI Protein Information	serine/threonine-protein kinase TAO1
UniProt Protein Name	Serine/threonine-protein kinase TAO1

UniProt Gene Name	TAOK1
UniProt Synonym Gene Names	KIAA1361; MAP3K16; MARKK; hKFC-B; MARKK; PSK-2; PSK2; Prostate-derived STE20-like kinase 2; TAOK1; hTAOK1

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/taok1-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/325125>