

Rabbit TAOK2 Polyclonal Antibody | anti-TAOK2 antibody

TAOK2 Antibody

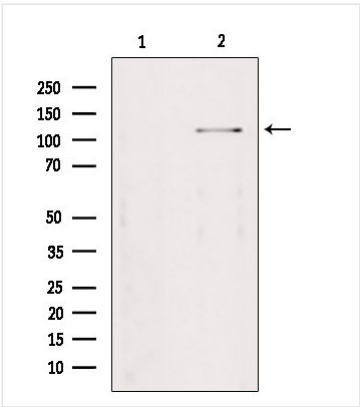
CATALOG # AAA323533	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

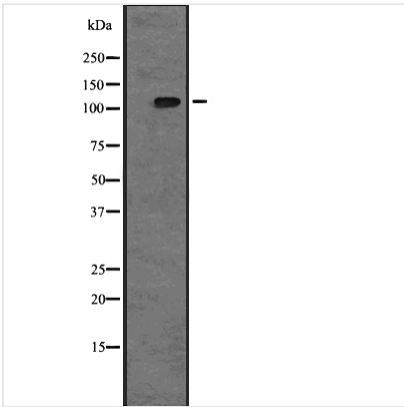
TAOK2; Polyclonal Antibody; TAOK2 Antibody; 1110033K02Rik; B230344N16; hKFC C; hKFC-C; KIAA0881; Kinase from chicken homolog C; MAP3K17; mKIAA0881; Prostate derived STE20 like kinase 1; Prostate derived STE20 like kinase PSK; Prostate derived sterile 20 like kinase 1; Prostate-derived STE20-like kinase 1; PSK 1; PSK; PSK-1; PSK1; PSK1 beta; Serine/threonine protein kinase TAO2; Serine/threonine-protein kinase TAO2; TAO 1; TAO 2; TAO kinase 2; TAO1; TAO2; TAOK 2; Taok2; TAOK2_HUMAN; Thousand and one amino acid protein 2; Thousand and one amino acid protein kinase; UNQ2971/PRO7431; anti-TAOK2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	TAOK2 antibody detects endogenous levels of total TAOK2
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	1122
Applicable Applications for anti-TAOK2 antibody	ELISA, WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasmic Vesicle Membrane. Cytoplasm > Cytoskeleton. Nucleus. Catalytically active full-length phosphorylated isoform 1 localizes to microtubules in the cytoplasm predominantly on microtubule cables positioned around the nucleus. A C-terminally truncated form of isoform 1 is present in the nucleus; isoform 2 and kinase-defective, as well as full-length isoform 1 are excluded from the nucleus and Cell projection > dendrite. In dendrites, colocalizes with PCDH8.
Tissue Specificity	Ubiquitously expressed, with a higher level of expression in testis and brain.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated



WB (Western Blot)
Western blot analysis of extracts from Hela, using TAOK2 Antibody. Lane 1 was treated with the blocking peptide.



WB (Western Blot)
Western blot analysis of TAOK2 expression in A431 whole cell lysate, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-TAOK2 antibody	Description: Isoform 1, but not isoform 2, plays a role in apoptotic morphological changes, including cell contraction, membrane blebbing and apoptotic bodies formation. This function, which requires the activation of MAPK8/JNK and nuclear localization of C-terminally truncated isoform 1, may be linked to the mitochondrial CASP9-associated death pathway. Isoform 1, but not isoform 2, activates the JNK MAP kinase pathway through the specific activation of the upstream MKK3 and MKK6 kinases. Isoform 1 binds to microtubules and affects their organization and stability independently of its kinase activity. Prevents MAP3K7-mediated activation of IKKA, and thus NF-kappa-B activation, but not that of JNK. Phosphorylates itself, MBP, activated MAPK8 and tubulins. May play a role in the osmotic stress-MAPK8 pathway. Isoform 2, but not isoform 1, is required for PCDH8 endocytosis. Following homophilic interactions between PCDH8 extracellular domains, isoform 2 phosphorylates and activates MAPK14/p38 MAPK which in turn phosphorylates isoform 2. This process leads to PCDH8 endocytosis and CDH2 cointernalization (By similarity). Both isoforms are involved in MAPK14 phosphorylation. Function: Serine/threonine-protein kinase involved in different processes such as membrane blebbing and apoptotic bodies formation DNA damage response and MAPK14/p38 MAPK stress-activated MAPK cascade. Phosphorylates itself, MBP, activated MAPK8, MAP2K3, MAP2K6 and tubulins. Activates the MAPK14/p38 MAPK signaling pathway through the specific activation and phosphorylation of the upstream MAP2K3 and MAP2K6 kinases. 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 upstream MAP2K3 and MAP2K6 kinases. Isoform 1, but not isoform 2, plays a role in apoptotic morphological changes, including cell contraction, membrane blebbing and apoptotic bodies formation. This function, which requires the activation of MAPK8/JNK and nuclear localization of C-terminally truncated isoform 1, may be linked to the mitochondrial CASP9-associated death pathway. Isoform 1 binds to microtubules and affects their organization and stability independently of its kinase activity. Prevents MAP3K7-mediated activation of CHUK, and thus NF-kappa-B activation, but not that of MAPK8/JNK. May play a role in the osmotic stress-MAPK8 pathway. Isoform 2, but not isoform 1, is required for PCDH8 endocytosis. Following homophilic interactions between PCDH8 extracellular domains, isoform 2 phosphorylates and activates MAPK14/p38 MAPK which in turn phosphorylates isoform 2. This process leads to PCDH8 endocytosis and CDH2 cointernalization. Both isoforms are involved in MAPK14 phosphorylation. Subunit Structure: Interacts with MAP2K3 and MAP2K6 (By similarity). Self-associates. Interacts with tubulins through the C-terminal domain. Interacts with MAP3K7 and interferes with MAP3K7-binding to CHUK and thus prevents NF-kappa-B activation. Isoform 2 interacts with PCDH8; this complex may also include CDH2 (By similarity). Post-translational Modifications: Isoforms 1 and 2 are autophosphorylated. C-terminal cleavage of isoform 1 and subsequent nuclear localization requires CASP9 activity. Autophosphorylated. Phosphorylated by ATM. Isoform 2: Phosphorylated on Ser-1031 by MAPK14. This phosphorylation is required PCDH8 for endocytosis (By similarity). Similarity: Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	354721195
NCBI GeneID	9344

NCBI Accession #	NP_001238972.1
NCBI GenBank Nucleotide #	NM_001252043.1
UniProt Accession #	Q9UL54 ; O94957 ; Q6UW73 ; Q7LC09 ; Q9NSW2 ; A5PKY1 ; A7MCZ2 ; B2RN35 ; B7ZM88
Molecular Weight	Observed: 120 kDa Predicted: 139 kDa
NCBI Official Full Name	serine/threonine-protein kinase TAO2 isoform 3
NCBI Official Synonym Full Names	TAO kinase 2
NCBI Official Symbol	TAOK2
NCBI Official Synonym Symbols	PSK; PSK1; TAO1; TAO2; MAP3K17; PSK1-BETA
NCBI Protein Information	serine/threonine-protein kinase TAO2
UniProt Protein Name	Serine/threonine-protein kinase TAO2
UniProt Gene Name	TAOK2
UniProt Synonym Gene Names	KIAA0881; MAP3K17; PSK; PSK1; hKFC-C; PSK-1; PSK1; Prostate-derived STE20-like kinase 1

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://www.aaabiotech.com/polyclonal/taok2-antibody-western-blot-elisa/323533>