

Rabbit MKK3 Polyclonal Antibody | anti-MKK3 antibody

MKK3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322331	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

MKK3; Polyclonal Antibody; MKK3 Antibody; AW212142; dual specificity mitogen activated protein kinase kinase 3; Dual specificity mitogen-activated protein kinase kinase 3; MAP kinase kinase 3; map2k3; MAPK ERK kinase 3; MAPK/ERK kinase 3; MAPKK 3; MAPKK3; MEK 3; MEK3; Mitogen activated protein kinase kinase 3; MKK 3; mMKK3b; MP2K3_HUMAN; PRKMK 3; PRKMK3; protein kinase; mitogen-activated; kinase 3; SAPK kinase 2; SAPKK 2; SAPKK2; Stress activated protein kinase kinase 2; anti-MKK3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	MKK3 antibody detects endogenous levels of total MKK3
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	318
Applicable Applications for anti-MKK3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MKK3
Tissue Specificity	Abundant expression is seen in the skeletal muscle. It is also widely expressed in other tissues.
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



IHC (Immunohistochemisry)

AAA322331 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.



IF (Immunofluorescence)

AAA322331 staining MDA-MB-435 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) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of MKK3 expression in MDA-MB-435 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-MKK3 antibody

Description: The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is activated by mitogenic and environmental stress, and participates in the MAP kinase-mediated signaling cascade. It phosphorylates and thus activates MAPK14/p38-MAPK. This kinase can be activated by insulin, and is necessary for the expression of glucose transporter.

Function: Dual specificity kinase. Is activated by cytokines and environmental stress in vivo. Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in the MAP kinase p38. Part of a signaling cascade that begins with the activation of the adrenergic receptor ADRA1B and leads to the activation of MAPK14.

Subunit Structure: Component of a signaling complex containing at least AKAP13, PKN1, MAPK14, ZAK and MAP2K3. Within this complex, AKAP13 interacts directly with PKN1, which in turn recruits MAPK14, MAP2K3 and ZAK (PubMed:21224381). Binds to DYRK1B/MIRK and increases its kinase activity (PubMed:11980910). Part of a complex with MAP3K3, RAC1 and CCM2 (By similarity). Interacts with ARRB1 (PubMed:16709866). Interacts with Yersinia yopJ (PubMed:16728640).

Post-translational Modifications: Autophosphorylated. Phosphorylation on Ser-218 and Thr-222 by MAP kinase kinase kinases regulates positively the kinase activity (PubMed:8622669). Phosphorylated by TAOK2 (PubMed:11279118). Yersinia yopJ may acetylate Ser/Thr residues, preventing phosphorylation and activation, thus blocking the MAPK signaling pathway.

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

NCBI AND UNIPROT INFORMATION

NCBI GI #	938403439
NCBI GeneID	5606
NCBI Accession #	NP_001303261.1
NCBI GenBank Nucleotide #	NM_001316332.1
UniProt Accession #	P46734; Q99441; Q9UE71; Q9UE72; B3KSK7
Molecular Weight	Observed: 40 kDa Predicted: 40 kDa
NCBI Official Full Name	dual specificity mitogen-activated protein kinase kinase 3 isoform A
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase 3
NCBI Official Symbol	MAP2K3
NCBI Official Synonym Symbols	MEK3; MKK3; MAPKK3; PRKMK3; SAPKK2; SAPKK-2

NCBI Protein Information	dual specificity mitogen-activated protein kinase kinase 3
UniProt Protein Name	Dual specificity mitogen-activated protein kinase kinase 3
UniProt Gene Name	MAP2K3
UniProt Synonym Gene Names	MEK3; MKK3; PRKMK3; SKK2; MAP kinase kinase 3; MAPKK 3; MEK 3; SAPK kinase 2; SAPKK-2; SAPKK2

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
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