

Rabbit MKP-1/2 Polyclonal Antibody | anti-MKP-1/2 antibody

Phospho-MKP-1/2 (Ser296/318) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321579	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

MKP-1/2; Polyclonal Antibody; Phospho-MKP-1/2 (Ser296/318) Antibody; CL 100; CL100; Dual Specificity Phosphatase 1; Dual specificity protein phosphatase 1; Dual specificity protein phosphatase hVH1; DUS1_HUMAN; DUSP 1; Dusp1; HVH1; MAP kinase phosphatase 1; Mitogen-activated protein kinase phosphatase 1; MKP-1; MKP1; Protein tyrosine phosphatase CL100; Protein-tyrosine phosphatase CL100; PTPN10; Serine/threonine specific protein phosphatase; VH1; Dual specificity phosphatase 4; Dual specificity protein phosphatase 4; Dual specificity protein phosphatase hVH2; DUS4_HUMAN; DUSP 4; Dusp4; HVH 2; HVH2; MAP kinase phosphatase 2; Mitogen activated protein kinase phosphatase 2; Mitogen-activated protein kinase phosphatase 2; MKP 2; MKP-2; MKP2; TYP; Typ1; VH 2; VH1 homologous phosphatase 2; VH2; anti-MKP-1/2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-MKP-1/2 (Ser296/318) antibody detects endogenous levels of MKP-1/2 only when phosphorylated at Serine 296/318
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
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	367
Applicable Applications for anti-MKP-1/2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MKP-1/2 around the phosphorylation site of Serine 296/318
Subcellular Location	Nucleus
Tissue Specificity	Expressed at high levels in the lung, liver placenta and pancreas. Moderate levels seen in the heart and skeletal muscle. Lower levels found in the brain and kidney.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Epitope	Phospho Ser296, Phospho Ser318
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA321579 staining K562 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.



IHC (Immunohistochemistry)

AAA321579 at 1/200 staining human kidney carcinoma tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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 MKP-1/2 phosphorylation expression in heatshock K562 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)

Western blot analysis of Phospho-MKP-1/2 (Ser296/318) Antibody expression in heatshock treated K562 cells lysates. The lane on the right is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-MKP-1/2 antibody

Description: The expression of DUSP1 gene is induced in human skin fibroblasts by oxidative/heat stress and growth factors. It specifies a protein with structural features similar to members of the non-receptor-type protein-tyrosine phosphatase family, and which has significant amino-acid sequence similarity to a Tyr/Ser-protein phosphatase encoded by the late gene H1 of vaccinia virus.
Function: Dual specificity phosphatase that dephosphorylates MAP kinase MAPK1/ERK2 on both 'Thr-183' and 'Tyr-185', regulating its activity during the meiotic cell cycle.
Post-translational Modifications: Phosphorylation at Ser-359 and Ser-364 by MAPK1/ERK2 and MAPK3/ERK1 reduces its rate of degradation.
Similarity: Belongs to the protein-tyrosine phosphatase family. Non-receptor class dual specificity subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758204
NCBI GeneID	1843
NCBI Accession #	NP_004408.1
NCBI GenBank Nucleotide #	NM_004417.3
UniProt Accession #	P28562; Q2V508; D3DQL9
Molecular Weight	Observed: 45 kDa Predicted: 40 kDa
NCBI Official Full Name	dual specificity protein phosphatase 1
NCBI Official Synonym Full Names	dual specificity phosphatase 1
NCBI Official Symbol	DUSP1
NCBI Official Synonym Symbols	HVH1; MKP1; CL100; MKP-1; PTPN10
NCBI Protein Information	dual specificity protein phosphatase 1
UniProt Protein Name	Dual specificity protein phosphatase 1
UniProt Gene Name	DUSP1
UniProt Synonym Gene Names	MAP kinase phosphatase 1; MKP-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.

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

Online datasheet: <https://stage.aaabiotech.com/polyclonal/mkp-1-2-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321579>