

Chicken MAPK1 Polyclonal Antibody | anti-MAPK1 antibody

MAPK1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA226360	Chicken	Human, Mouse, Rat	Western Blot, Immunoprecipitation, Immunohistochemistry, ELISA

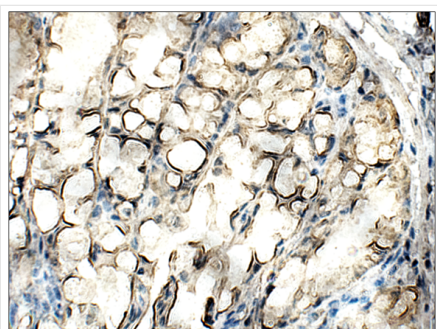
PRODUCT SYNONYMS

MAPK1; Polyclonal Antibody; MAPK1 Antibody; Affinity Purified Mitogen-activated protein kinase 1 Antibody; ERK antibody; ERK-2 antibody; ERT1 antibody; Extracellular signal-regulated kinase 2 antibody; MAP kinase 1 antibody; MAP kinase isoform p42 antibody; MAPK 1 antibody; Mapk1 antibody; MAPK2 antibody; Mitogen-activated protein kinase 1 antibody; P38 antibody; P40 antibody; P41 antibody; p42-MAPK antibody; P42MAPK antibody; PRKM1 antibody; protein kinase; mitogen-activated; 1 antibody; anti-MAPK1 antibody

PRODUCT SPECIFICATIONS

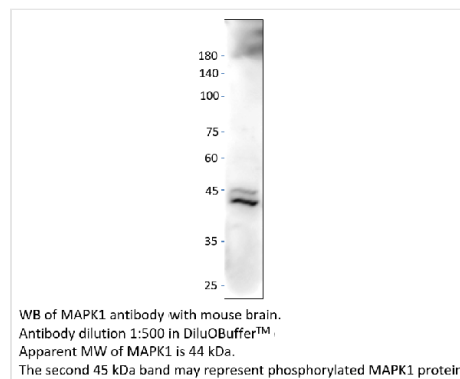
Host	Chicken
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgY
Purity/Purification	Affinity Purified
Concentration	0.5 ug/ul in antibody stabilization buffer (varies by lot)
Sequence Length	360
Applicable Applications for anti-MAPK1 antibody	WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA
Immunogen	Synthetic peptide taken within amino acid region 300-350 on human Mitogen-activated protein kinase 1.
Conjugation	Unconjugated
Molecular Function	Kinase; Repressor; Serine/threonine-protein kinase; Transferase
Subcellular Location	Cytoplasm; cytoskeleton; spindle Nucleus Cytoplasm; cytoskeleton; microtubule organizing center; centrosome Cytoplasm
Preparation and Storage	Store at -20 degree C for long term storage.

IMAGES



Mouse Colon- MAPK1
Primary Antibody: 1:50 dilution in IHC Blocking Buffer.
DAB (brown) staining and Hematoxylin Q5 (blue) counterstain.
40X magnification on Leica DM4000. FFPE section.

IHC (Immunohistochemistry)



WB of MAPK1 antibody with mouse brain.
Antibody dilution 1:500 in DiluOBuffer™.
Apparent MW of MAPK1 is 44 kDa.
The second 45 kDa band may represent phosphorylated MAPK1 protein.

WB (Western Blot)

ADDITIONAL INFORMATION

Related Product Information for anti-MAPK1 antibody	Overview: Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. MAPK1/ERK2 and MAPK3/ERK1 are the 2 MAPKs which play an important role in the MAPK/ERK cascade. They participate also in a signaling cascade initiated by activated KIT and KITLG/SCF. Depending on the cellular context, the MAPK/ERK cascade mediates diverse biological functions such as cell growth, adhesion, survival and differentiation through the regulation of transcription, translation, cytoskeletal rearrangements. The MAPK/ERK cascade plays also a role in initiation and regulation of meiosis, mitosis, and postmitotic functions in differentiated cells by phosphorylating a number of transcription factors. About 160 substrates have already been discovered for ERKs. Many of these substrates are localized in the nucleus, and seem to participate in the regulation of transcription upon stimulation. However, other substrates are found in the cytosol as well as in other cellular organelles, and those are responsible for processes such as translation, mitosis and apoptosis. Structure: Binds both upstream activators and downstream substrates in multimolecular complexes. Binds to HIV-1 Nef through its SH3 domain. This interaction inhibits its tyrosine-kinase activity. Interacts with ADAM15, ARHGEF2, ARRB2, DAPK1 (via death domain), HSF4,
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NCBI AND UNIPROT INFORMATION

NCBI GI #	66932916
NCBI GeneID	5594
NCBI Accession #	NP_002736.3
NCBI GenBank Nucleotide #	NM_002745.4
UniProt Accession #	P28482; A8CZ64
Molecular Weight	36,432 Da
NCBI Official Full Name	mitogen-activated protein kinase 1
NCBI Official Synonym Full Names	mitogen-activated protein kinase 1
NCBI Official Symbol	MAPK1
NCBI Official Synonym Symbols	ERK; p38; p40; p41; ERK2; ERT1; ERK-2; MAPK2; PRKM1; PRKM2; P42MAPK; p41mapk; p42-MAPK
NCBI Protein Information	mitogen-activated protein kinase 1
UniProt Protein Name	Mitogen-activated protein kinase 1
UniProt Gene Name	MAPK1
UniProt Synonym Gene Names	ERK2; PRKM1; PRKM2; MAP kinase 1; MAPK 1; ERK-2; p42-MAPK; MAP kinase 2; MAPK 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.