

Mouse anti-Human MAPK1 Monoclonal Antibody | anti-MAPK1 antibody

MAPK1 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48080	Mouse	Human	Immunofluorescence, Western Blot, ELISA

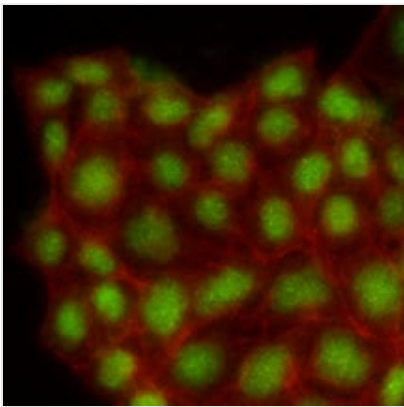
PRODUCT SYNONYMS

MAPK1; Monoclonal Antibody; MAPK1 antibody; Mitogen-activated protein kinase 1; ERK; ERK2; ERT1; MAPK2; p38; p40; p41; p41mapk; P42MAPK; PRKM1; PRKM2; Mitogen-activated protein kinase 1 MAP kinase 2; MAPK 2; ERK 2; Extracellular Signal Regulated Kinase 2; MAPK 1.; anti-MAPK1 antibody

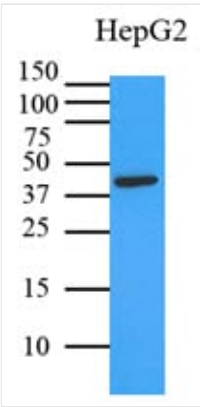
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, k
Clone Number	AT1A4
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	360
Applicable Applications for anti-MAPK1 antibody	IF (Immunofluorescence), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human MAPK1 (1-360) purified from E Coli
Clone Note	Anti-human MAPK1 mAb, clone AT1A4, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human MAPK1 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)
Immunofluorescence of human MCF7 cells stained with Phalloidin-TRITC (Red) for Actin staining and monoclonal anti-human MAPK1 antibody (1:500) with Alexa 488 (Green).



WB (Western Blot)
Cell lysates of HepG2 (35ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human MAPK1 (1:3000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

ADDITIONAL INFORMATION

Related Product Information for anti-MAPK1 antibody	Mitogen-activated protein kinases (MAPKs) are reported to be critical regulatory factors for the growth and migration of various cell types including vascular smooth muscle cells (VSMCs). It has also been reported that the activation of the MAP kinase family, extracellular signal regulated kinases 1/2 (ERK1/2), and c-Jun N-terminal kinase (JNK) via Src activation is important for AII-induced migration of VSMCs. MAPKs are intracellular signal-transduction pathways that have been shown to play a central role in the development of injury following ischemia in the brain and heart. MAPKs regulate gene expression, which is important in cell injury/repair and proliferation/differentiation.
Product Categories/Family for anti-MAPK1 antibody	Cancer
References	Le A, et al. (2010) Proc Natl Acad Sci U S A, 107 (5):2037-42.; Gesslein B, et al. (2010) Mol Vis, 16:392-407.; Lai EW, et al. (2004) J Invest Surg, 17:45-53.

NCBI AND UNIPROT INFORMATION

NCBI GI #	20986531
NCBI GeneID	5594
NCBI Accession #	NP_620407
NCBI GenBank Nucleotide #	NM_138957.3
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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/mapk1-antibody-clone-at1a4-immunofluorescence-western-blot-elisa/48080>