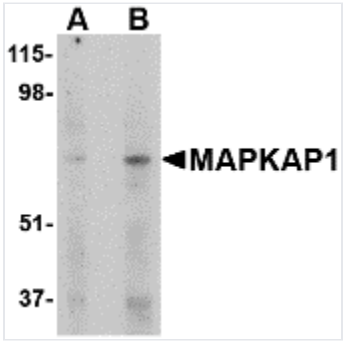
MAPKAP1 Antibody – Rabbit Polyclonal

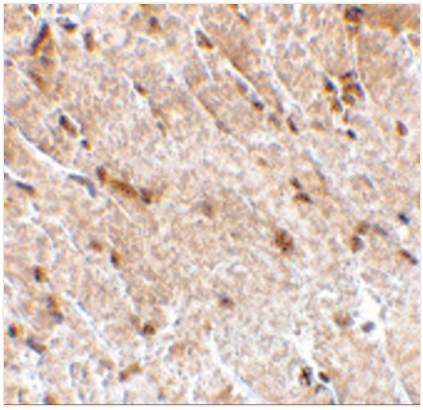
PRODUCT OVERVIEW

Product Name	MAPKAP1, Polyclonal Antibody
Full Product Name	MAPKAP1 Antibody
Product Gene Name	anti-MAPKAP1 antibody
Product Synonym Names	MAPKAP1; MIP1; SIN1; JC310; SIN1b; SIN1g; MIP1; Target of rapamycin complex 2 subunit MAPKAP1; Mitogen-activated protein kinase 2-associated protein 1; TORC2 subunit MAPKAP1; mitogen-activated protein kinase associated protein 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid
Purity/Purification	MAPKAP1 Antibody is affinity chromatography purified via peptide column.
Concentration	1 mg/mL (lot specific)
Preparation and Storage	MAPKAP1 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Antibody/Peptide Pairs	MAPKAP1 peptide (MBS153236) is used for blocking the activity of MAPKAP1 antibody (MBS150267)
Molecular Weight	41,838 Da
OMIM	610558
3D Structure	ModBase 3D Structure for Q9BPZ7
Conjugate	Unconjugated
Immunogen	MAPKAP1 antibody was raised against a 18 amino acid synthetic peptide from near the center of human MAPKAP1.
Buffer	MAPKAP1 Antibody is supplied in PBS containing 0.02% sodium azide.
Applications Tested/Suitable for anti-MAPKAP1 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-MAPKAP1 antibody	MAPKAP1 antibody can be used for detection of MAPKAP1 by Western blot at 1 - 2 mug/mL. Antibody can also be used for immunohistochemistry starting at 5 mug/mL.
Related Product Information for anti-MAPKAP1 antibody	MAPKAP1 Antibody: MAPKAP1 was initially identified as the human homolog of S. pombe SIN1. Recent evidence has shown that it identical to Mip1, a protein that interacts with MEKK2, a member of the mitogen-activated protein kinase (MAPK) intracellular signaling network. MAPKAP1 is thought to prevent MEKK2 activation and dimerization by forming a complex with the inactive and non-phosphorylated MEKK2, thereby blocking the JNK1/2, ERK1/2, p38 and ERK5 MAPKs. MAPKAP1 has also been shown to play a role in the TOR signaling process, a pathway that is involved in controlling cell growth and proliferation in response to environmental cues such as nutrients, growth factors and hormones. Experiments showed that MAPKAP1 helped to maintain the TOR/rictor assembly but not the TOR/RAPTOR complex, which allowed specific phosphorylation of Akt, a kinase that is believed to couple the growth factor-PI3K signaling pathway to the nutrient-regulated TOR signaling pathway. Multiple alternatively spliced isoforms of MAPKAP1 have been identified.

Other Notes	Small volumes of anti-MAPKAP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MAPKAP1 purchase	MBS150267 is an antibody targeting MAPKAP1. Also known as MAPKAP1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-MAPKAP1 antibody
Western blot analysis of MAPKAP1 in human skeletal muscle tissue lysate with MAPKAP1 antibody at (A) 1 and (B) 2 ?g/mL.



Immunohistochemistry (IHC) of anti-MAPKAP1 antibody
Immunohistochemistry of MAPKAP1 in human skeletal muscle tissue with MAPKAP1 antibody at 5 ?g/mL.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAPKAP1. It may not necessarily be applicable to this product.

NCBI GI #	56788407
NCBI GeneID	79109
NCBI Accession #	NP_001006618
UniProt Primary Accession #	Q9BPZ7
UniProt Secondary Accession #	Q00426; Q5JSV5; Q5JSV6; Q5JSV9; Q658R0; Q699U1; Q699U2; Q699U3; A8K1Z5; B1AMA4; B7Z309
UniProt Related Accession #	Q9BPZ7
GenBank Nucleotide #	NM_001006617.1
NCBI Official Full Name	target of rapamycin complex 2 subunit MAPKAP1 isoform 1
NCBI Official Synonym Full Names	mitogen-activated protein kinase associated protein 1
NCBI Official Symbol	MAPKAP1
NCBI Official Synonym Symbols	MIP1; SIN1; JC310; SIN1b; SIN1g
UniProt Protein Name	Target of rapamycin complex 2 subunit MAPKAP1
UniProt Synonym Protein Names	Mitogen-activated protein kinase 2-associated protein 1; Stress-activated map kinase-interacting protein 1; SAPK-interacting protein 1; mSIN1
Protein Family	Target of rapamycin complex
UniProt Gene Name	MAPKAP1
UniProt Synonym Gene Names	MIP1; SIN1; TORC2 subunit MAPKAP1; SAPK-interacting protein 1; mSIN1
UniProt Entry Name	SIN1_HUMAN
NCBI Protein Information	target of rapamycin complex 2 subunit MAPKAP1; mSIN1; TORC2 subunit MAPKAP1; ras inhibitor MGC2745; SAPK-interacting protein 1; MEKK2-interacting protein 1; stress-activated protein kinase-interacting 1; stress-activated map kinase interacting protein 1; stress-activated map kinase-interacting protein 1; mitogen-activated protein kinase 2-associated protein 1

NCBI Summary for MAPKAP1	This gene encodes a protein that is highly similar to the yeast SIN1 protein, a stress-activated protein kinase. Alternatively spliced transcript variants encoding distinct isoforms have been described. Alternate polyadenylation sites as well as alternate 3' UTRs have been identified for transcripts of this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for MAPKAP1	Sin1: a member of a conserved family of proteins that have an essential roles in signal transduction from yeast to mammals. An essential component of the mTORC2 complex, which consists of mTOR, LST8, Sin1, Protor (PRR5), and RICTOR, the Rapamycin Insensitive Companion of mTOR. mTORC2 is activated by growth factors, but, in contrast to mTORC1, seems to be nutrient-insensitive. mTORC2 seems to function upstream of Rho GTPases to regulate the actin cytoskeleton, probably by activating one or more Rho-type guanine nucleotide exchange factors. mTORC2 promotes the serum-induced formation of stress-fibers or F-actin. mTORC2 regulates the phosphorylation of SGK1 S422 and PKCA S657. Enhances osmotic stress-induced phosphorylation of ATF2 and ATF2-mediated transcription. Contains a Ras-binding (RBD) and a pleckstrin homology (PH) domains. Plays an important role in the SAPK signaling pathway by binding directly to both ATF-2 and p38. A genetic knockout of Sin1 abolished Akt-S473 phosphorylation and disrupts the RICTOR-mTOR interaction, but Akt-Thr308 phosphorylation is maintained. Six alternatively-spliced isoforms of the human protein have been reported. All isoforms except 4 can be incorporated into the the mTORC2 complex. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 9q33.3 Cellular Component: nucleoplasm; Golgi apparatus; cytoplasm; cytoplasmic membrane-bound vesicle; plasma membrane; cytosol; nucleus Molecular Function: protein binding; phosphatidylinositol-4,5-bisphosphate binding; phosphatidylinositol-3,4,5-triphosphate binding; Ras GTPase binding; phosphatidylinositol-3,4-bisphosphate binding; protein kinase binding Biological Process: epidermal growth factor receptor signaling pathway; fibroblast growth factor receptor signaling pathway; phosphoinositide-mediated signaling; substantia nigra development; nerve growth factor receptor signaling pathway; T cell costimulation; innate immune response; negative regulation of Ras protein signal transduction; vascular endothelial growth factor receptor signaling pathway
Research Articles on MAPKAP1	**1.** DNA-PKcs-mTORC2(SIN1) association is required for UVB-induced Akt Ser-473 phosphorylation and cell survival.
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