

**MAPKAP1 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP14132b****Specification**

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**MAPKAP1 Antibody (C-term) Blocking peptide - Product Information**Primary Accession [Q9BPZ7](#)**MAPKAP1 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 79109**Other Names**

Target of rapamycin complex 2 subunit MAPKAP1, TORC2 subunit MAPKAP1, Mitogen-activated protein kinase 2-associated protein 1, Stress-activated map kinase-interacting protein 1, SAPK-interacting protein 1, mSIN1, MAPKAP1, MIP1, SIN1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody AP14132b was selected from the C-term region of MAPKAP1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**MAPKAP1 Antibody (C-term) Blocking peptide - Protein Information****Name** MAPKAP1**Synonyms** MIP1, SIN1**Function**

Subunit of mTORC2, which regulates cell growth and survival in response to hormonal signals. 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 plays a critical role in AKT1 'Ser-473' phosphorylation, which may facilitate the phosphorylation of the activation loop of AKT1 on 'Thr-308' by PDK1 which is a prerequisite for full activation. mTORC2 regulates the phosphorylation of SGK1 at 'Ser-422'. mTORC2 also modulates the phosphorylation of PRKCA on 'Ser-657'. Within mTORC2, MAPKAP1 is required for complex formation and mTORC2 kinase

activity. MAPKAP1 inhibits MAP3K2 by preventing its dimerization and autophosphorylation. Inhibits HRAS and KRAS signaling. Enhances osmotic stress-induced phosphorylation of ATF2 and ATF2-mediated transcription. Involved in ciliogenesis, regulates cilia length through its interaction with CCDC28B independently of mTORC2 complex.

**Cellular Location**

Cell membrane; Peripheral membrane protein. Cytoplasmic vesicle. Nucleus

**Tissue Location**

Ubiquitously expressed, with highest levels in heart and skeletal muscle.

**MAPKAP1 Antibody (C-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**MAPKAP1 Antibody (C-term) Blocking peptide - Images****MAPKAP1 Antibody (C-term) Blocking peptide - Background**

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.

**MAPKAP1 Antibody (C-term) Blocking peptide - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Yoshida, T., et al. Int. J. Mol. Med. 25(4):649-656(2010) Oguri, M., et al. Am. J. Hypertens. 23(1):70-77(2010) Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)