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MAPKAP1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14132b

Specification

MAPKAP1 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q9BPZ7
Other Accession	Q6AYF1, A2VDU2, NP_001006618.1, NP_001006619.1, NP_001006621.1, Q6QD73
Reactivity	**Human**
Predicted	**Bovine, Rat, Sheep**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**59123**
Antigen Region	**481-510**

MAPKAP1 Antibody (C-term) - 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
This MAPKAP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 481-510 amino acids from the C-terminal region of human MAPKAP1.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
MAPKAP1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MAPKAP1 Antibody (C-term) - Protein Information

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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

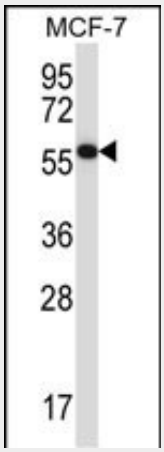
Tissue Location
Ubiquitously expressed, with highest levels in heart and skeletal muscle.

MAPKAP1 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MAPKAP1 Antibody (C-term) - Images



MAPKAP1 Antibody (C-term) (Cat. #AP14132b) western blot analysis in MCF-7 cell line lysates

(35ug/lane).This demonstrates the MAPKAP1 antibody detected the MAPKAP1 protein (arrow).

MAPKAP1 Antibody (C-term) - 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) - 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)