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MAPKAP1 (N) Antibody, Rabbit Polyclonal

Cat#: R1686-1

Lot#: Refer to vial

Quantity: 100 ul

Application: WB

Predicted | Observed MW: 59 kDa

Uniprot ID: Q9BPZ7

Background:

Mitogen-activated protein kinase 2-associated protein 1 (MAPKAP1) is a subunit of Target of rapamycin complex 2 (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 phosphorylation of AKT1, SGK1 and PRKCA. Within mTORC2, MAPKAP1 is required for complex formation and mTORC2 kinase activity. MAPKAP1 inhibits MAP3K2 by preventing its dimerization and autophosphorylation. MAPKAP1 also inhibits HRAS and KRAS signaling, while enhances osmotic stress-induced phosphorylation of ATF2 and ATF2-mediated transcription.

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, MIP1, SIN1

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the N-terminal region of human MAPKAP1. Antibodies were purified by affinity purification using immunogen.

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN_3. Store at -20 °C. Stable for 6 months from date of receipt.

Tested Applications:

WB: 1:1,000-1:3,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

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Species Specificity:

Human, Mouse

Product Data:

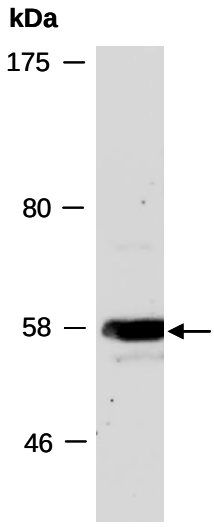

Fig 1. *Western blot of total cell extracts from mouse brain; using anti-MAPKAP1 (N) (R1686-1) at RT for 2 h.*

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For research use only. Not for therapeutic or diagnostic purposes.
Abiocode, Inc., 29397 Agoura Rd., Ste 106, Agoura Hills, CA 91301