

Rabbit Sin1 Polyclonal Antibody | anti-Sin1 antibody

Phospho-Sin1 (Thr86) Antibody

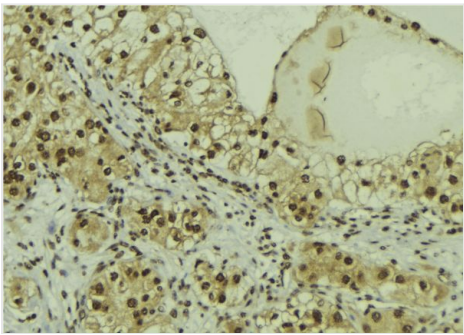
CATALOG # AAA321391	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

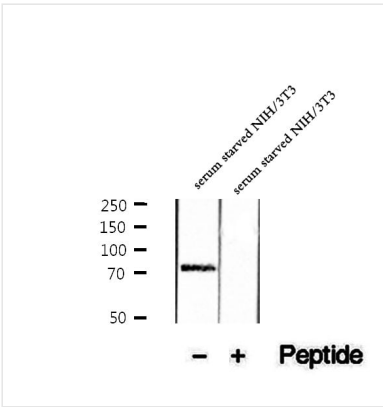
Sin1; Polyclonal Antibody; Phospho-Sin1 (Thr86) Antibody; MAPKAP 1; MAPKAP1; MEKK2 interacting protein 1; MGC2745; MIP 1; MIP1; Mitogen activated protein kinase associated protein 1; Mitogen-activated protein kinase 2-associated protein 1; mSIN1; OTTHUMP00000064207; Ras inhibitor MGC2745; SAPK interacting protein 1; SAPK-interacting protein 1; SIN 1; SIN1_HUMAN; SIN1b; SIN1g; Stress activated map kinase interacting protein 1; Stress activated protein kinase interacting 1; Stress-activated map kinase-interacting protein 1; Target of rapamycin complex 2 subunit MAPKAP1; TORC2 subunit MAPKAP1; anti-Sin1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-Sin1 (Thr86) antibody detects endogenous levels of Sin1.
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	522
Applicable Applications for anti-Sin1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Sin1 around the phosphorylation site of Thr86.
Subcellular Location	Cell Membrane. Cytoplasmic Vesicle. Nucleus.
Tissue Specificity	Ubiquitously expressed, with highest levels in heart and skeletal muscle.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (92%)
Conjugation	Unconjugated
Epitope	Phospho Thr86
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA321391 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of serum starved NIH/3T3 cells, using Phospho-Sin1 (Thr86) Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-Sin1 antibody	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. Subunit Structure: All isoforms except isoform 4 can be incorporated into the mammalian target of rapamycin complex 2 (mTORC2) which contains MTOR, MLST8, PRR5, RICTOR, MAPKAP1 and DEPTOR. Contrary to mTORC1, mTORC2 does not bind to and is not sensitive to FKBP12-rapamycin. Interacts with ATF2, MAP3K2 and MAPK8. Interacts with GTP-bound HRAS and KRAS. Interacts with IFNAR2 and SGK1. Isoform 2 interacts with NBN. Isoform 1 interacts with CCDC28B. Similarity: Belongs to the SIN1 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	56788407
NCBI GeneID	79109
NCBI Accession #	NP_001006618.1
NCBI GenBank Nucleotide #	NM_001006617.1
UniProt Accession #	Q9BPZ7; Q00426; Q5JSV5; Q5JSV6; Q5JSV9; Q658R0; Q699U1; Q699U2; Q699U3; A8K1Z5; B1AMA4; B7Z309
Molecular Weight	Observed: 78; 74 kDa Predicted: 60 kDa
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
NCBI Protein Information	target of rapamycin complex 2 subunit MAPKAP1

UniProt Protein Name	Target of rapamycin complex 2 subunit MAPKAP1
UniProt Gene Name	MAPKAP1
UniProt Synonym Gene Names	MIP1; SIN1; TORC2 subunit MAPKAP1; SAPK-interacting protein 1; mSIN1

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/sin1-antibody-immunohistochemistry-western-blot-elisa/321391>