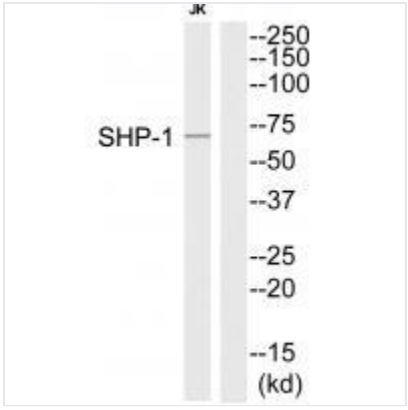
SHP-1 Antibody – Rabbit Polyclonal

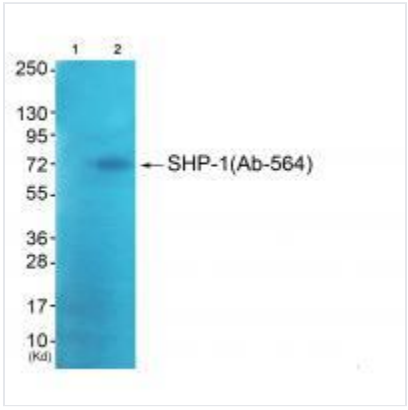
PRODUCT OVERVIEW

Product Name	SHP-1, Polyclonal Antibody
Full Product Name	SHP-1 (Ab-564) Antibody
Product Gene Name	anti-SHP-1 antibody
Product Synonym Names	HCP; HCPH; hematopoietic cell phosphatase; Hematopoietic cell protein-tyrosine phosphatase; HPTP1C
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of total SHP-1 protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	81,780 Da
OMIM	603607
3D Structure	ModBase 3D Structure for O75582
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from C-terminal of human SHP-1.
Target Name	SHP-1
Product Categories/Family for anti-SHP-1 antibody	Total protein Ab
Applications Tested/Suitable for anti-SHP-1 antibody	Western Blot (WB)
Application Notes for anti-SHP-1 antibody	Western blotting: 1:500~1:3000

Related Product Information for anti-SHP-1 antibody	Serine/threonine-protein kinase that is required for the mitogen or stress-induced phosphorylation of the transcription factors CREB1 and ATF1 and for the regulation of the transcription factors RELA, STAT3 and ETV1/ER81, and that contributes to gene activation by histone phosphorylation and functions in the regulation of inflammatory genes. Phosphorylates CREB1 and ATF1 in response to mitogenic or stress stimuli such as UV-C irradiation, epidermal growth factor (EGF) and anisomycin. Plays an essential role in the control of RELA transcriptional activity in response to TNF and upon glucocorticoid, associates in the cytoplasm with the glucocorticoid receptor NR3C1 and contributes to RELA inhibition and repression of inflammatory gene expression. In skeletal myoblasts is required for phosphorylation of RELA at 'Ser-276' during oxidative stress. In erythropoietin-stimulated cells, is necessary for the 'Ser-727' phosphorylation of STAT3 and regulation of its transcriptional potential. Phosphorylates ETV1/ER81 at 'Ser-191' and 'Ser-216', and thereby regulates its ability to stimulate transcription, which may be important during development and breast tumor formation. Directly represses transcription via phosphorylation of 'Ser-1' of histone H2A. Phosphorylates 'Ser-10' of histone H3 in response to mitogenics, stress stimuli and EGF, which results in the transcriptional activation of several immediate early genes, including proto-oncogenes c-fos/FOS and c-jun/JUN. May also phosphorylate 'Ser-28' of histone H3. Mediates the mitogen- and stress-induced phosphorylation of high mobility group protein 1 (HMGN1/HMG14). In lipopolysaccharide-stimulated primary macrophages, acts downstream of the Toll-like receptor TLR4 to limit the production of pro-inflammatory cytokines. Functions probably by inducing transcription of the MAP kinase phosphatase DUSP1 and the anti-inflammatory cytokine interleukin 10 (IL10), via CREB1 and ATF1 transcription factors. Plays a role in neuronal cell death by mediating the downstream effects of excitotoxic injury.Yi T., Mol. Cell. Biol. 12:836-846(1992).Shen S.H., Nature 352:736-739(1991).Plutzky J., Proc. Natl. Acad. Sci. U.S.A. 89:1123-1127(1992).
Other Notes	Small volumes of anti-SHP-1 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 SHP-1 purchase	MBS9406378 is an antibody targeting SHP-1. Also known as SHP-1 (Ab-564) Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-SHP-1 antibody
Western blot analysis of extracts from Jurkat cells, using SHP-1 (Ab-564) antibody.



Western Blot (WB) of anti-SHP-1 antibody
Western blot analysis of extracts from JK cells (Lane 2), using SHP-1 (Ab-564) antiobdy. The lane on the left is treated with synthesized peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SHP-1. It may not necessarily be applicable to this product.

NCBI GI #	32528295
NCBI GeneID	9252
NCBI Accession #	NP_004746.2
UniProt Primary Accession #	O75582
UniProt Secondary Accession #	O95316; Q96AF7; B7Z2Y5
UniProt Related Accession #	O75582
GenBank Nucleotide #	NM_004755.2

NCBI Official Full Name	ribosomal protein S6 kinase alpha-5 isoform a
NCBI Official Synonym Full Names	ribosomal protein S6 kinase, 90kDa, polypeptide 5
NCBI Official Symbol	RPS6KA5
NCBI Official Synonym Symbols	MSK1; RLPK; MSPK1
UniProt Protein Name	Ribosomal protein S6 kinase alpha-5
UniProt Synonym Protein Names	90 kDa ribosomal protein S6 kinase 5; Nuclear mitogen- and stress-activated protein kinase 1; RSK-like protein kinase; RSKL
Protein Family	Tyrosine-protein phosphatase non-receptor
UniProt Gene Name	RPS6KA5
UniProt Synonym Gene Names	MSK1; S6K-alpha-5; RSKL
UniProt Entry Name	KS6A5_HUMAN
NCBI Protein Information	ribosomal protein S6 kinase alpha-5
UniProt Comments for SHP-1	MSK1: an AGC kinase of the RSK family. Has two kinase domains connected by a regulatory linker region. Enzyme activity requires the presence of both kinase domains. Is phosphorylated and activated by Erk as well as p38 MAPK in response to growth factors and cellular stress. Protein type: Kinase, protein; Protein kinase, Ser/Thr (non-receptor); Protein kinase, AGC; EC 2.7.11.1; AGC group; RSK family; MSK subfamily Chromosomal Location of Human Ortholog: 14q31-q32.1 Cellular Component: nucleoplasm; cytoplasm; nucleus Molecular Function: protein serine/threonine kinase activity; protein binding; magnesium ion binding; ATP binding; protein kinase activity Biological Process: epidermal growth factor receptor signaling pathway; axon guidance; positive regulation of histone phosphorylation; nerve growth factor receptor signaling pathway; histone phosphorylation; MyD88-independent toll-like receptor signaling pathway; activation of CREB transcription factor; stress-activated MAPK cascade; toll-like receptor 3 signaling pathway; protein amino acid phosphorylation; toll-like receptor 2 signaling pathway; toll-like receptor 10 signaling pathway; activation of NF-kappaB transcription factor; MyD88-dependent toll-like receptor signaling pathway; toll-like receptor 5 signaling pathway; regulation of transcription, DNA-dependent; negative regulation of cytokine production; toll-like receptor signaling pathway; innate immune response; positive regulation of transcription from RNA polymerase II promoter; positive regulation of histone acetylation; toll-like receptor 9 signaling pathway; negative regulation of transcription, DNA-dependent; inflammatory response; toll-like receptor 4 signaling pathway
Research Articles on SHP-1	**1.** Authors conclude that paramyxoviruses trigger the DNA damage response, a pathway required for MSK1 activation of phospho Ser 276 RelA formation to trigger the IRF7-RIG-I amplification loop necessary for mucosal interferon production.
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