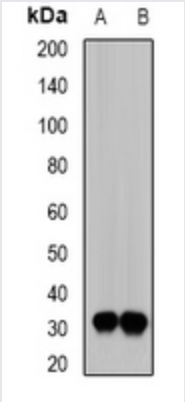
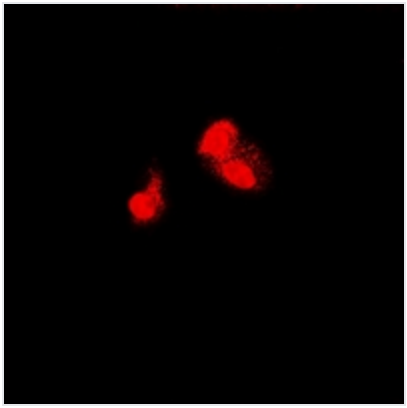
SIAH1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SIAH1, Polyclonal Antibody
Full Product Name	Rabbit anti-SIAH1 Antibody
Product Gene Name	anti-SIAH1 antibody
Product Synonym Names	HUMSIAH; E3 ubiquitin-protein ligase SIAH1; Seven in absentia homolog 1; Siah-1; Siah-1a
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	282
OMIM	602212
3D Structure	ModBase 3D Structure for Q8IUQ4
Immunogen	Recombinant full length protein of human SIAH1
Product Categories/Family for anti-SIAH1 antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-SIAH1 antibody	Western Blot (WB), Immunofluorescence (IF), Immunochemistry (IC)
Application Notes for anti-SIAH1 antibody	WB: 1:500-1:2000 IF:IC: 1:50-1:200
Related Product Information for anti-SIAH1 antibody	MBS4510133 is an antibody targeting SIAH1. Also known as Rabbit anti-SIAH1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-SIAH1 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.



Western Blot (WB) of anti-SIAH1 antibody
Western blot analysis of SIAH1 expression in BT474 (A), mouse kidney (B) whole cell lysates.



Immunofluorescence (IF) of anti-SIAH1 antibody
Immunofluorescent analysis of SIAH1 staining in U2OS cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SIAH1. It may not necessarily be applicable to this product.

NCBI GI #	46577493
NCBI GeneID	6477
NCBI Accession #	Q8IUQ4.2
UniProt Primary Accession #	Q8IUQ4
UniProt Secondary Accession #	Rat:Q920M9
UniProt Related Accession #	Q8IUQ4
NCBI Official Full Name	E3 ubiquitin-protein ligase SIAH1
NCBI Official Synonym Full Names	siah E3 ubiquitin protein ligase 1
NCBI Official Symbol	SIAH1
NCBI Official Synonym Symbols	SIAH1A
UniProt Protein Name	E3 ubiquitin-protein ligase SIAH1
UniProt Synonym Protein Names	Seven in absentia homolog 1; Siah-1; Siah-1a
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	SIAH1
UniProt Synonym Gene Names	HUMSIAH; Siah-1
UniProt Entry Name	SIAH1_HUMAN
NCBI Protein Information	E3 ubiquitin-protein ligase SIAH1; siah-1a; seven in absentia homolog 1
NCBI Summary for SIAH1	This gene encodes a protein that is a member of the seven in absentia homolog (SIAH) family. The protein is an E3 ligase and is involved in ubiquitination and proteasome-mediated degradation of specific proteins. The activity of this ubiquitin ligase has been implicated in the development of certain forms of Parkinson's disease, the regulation of the cellular response to hypoxia and induction of apoptosis. Alternative splicing results in several additional transcript variants, some encoding different isoforms and others that have not been fully characterized. [provided by RefSeq, Jul 2008]

UniProt Comments for SIAH1	SIAH1: E3 ubiquitin-protein ligase that mediates ubiquitination and subsequent proteasomal degradation of target proteins. E3 ubiquitin ligases accept ubiquitin from an E2 ubiquitin- conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Mediates E3 ubiquitin ligase activity either through direct binding to substrates or by functioning as the essential RING domain subunit of larger E3 complexes. Triggers the ubiquitin-mediated degradation of many substrates, including proteins involved in transcription regulation (MYB, POU2AF1, PML and RBBP8), a cell surface receptor (DCC), the cell-surface receptor-type tyrosine kinase FLT3, the cytoplasmic signal transduction molecules (KLF10/TIEG1 and NUMB), an antiapoptotic protein (BAG1), a microtubule motor protein (KIF22), a protein involved in synaptic vesicle function in neurons (SYP), a structural protein (CTNNB1) and SNCAIP. Confers constitutive instability to HIPK2 through proteasomal degradation. It is thereby involved in many cellular processes such as apoptosis, tumor suppression, cell cycle, axon guidance, transcription regulation, spermatogenesis and TNF-alpha signaling. Has some overlapping function with SIAH2. Induces apoptosis in cooperation with PEG3. Upon nitric oxid (NO) generation that follows apoptotic stimulation, interacts with S- nitrosylated GAPDH, mediating the translocation of GAPDH to the nucleus. GAPDH acts as a stabilizer of SIAH1, facilitating the degradation of nuclear proteins. Homodimer. Interacts with group 1 glutamate receptors GRM1 and GRM5. Interacts with DAB1, which may inhibit its activity. Interacts with UBE2E2. Interacts with PEG3. Interacts with GAPDH; leading to stabilize SIAH1. Component of some large E3 complex composed of UBE2D1, SIAH1, CACYBP/SIP, SKP1, APC and TBL1X. Interacts with UBE2I. Interacts with alpha- tubulin. Interacts with PEG10, which may inhibit its activity. Interacts with KHDRBS3. Interacts with SNCAIP and HIPK2. May be induced by p53/TP53, suggesting that it may be required to modulate p53/TP53 response. The relevance of such activity in vivo is however unclear and may not exist. Widely expressed at a low level. Down- regulated in advanced hepatocellular carcinomas. Inhibited by interaction with SNCAIP (isoform 2, but not isoform 1). May be inhibited by interaction with PEG10. Belongs to the SINA (Seven in absentia) family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 6.3.2.-; Ligase; Motility/polarity/chemotaxis; Apoptosis; EC 6.3.2.19; Cell development/differentiation; Ubiquitin conjugating system; Ubiquitin ligase Chromosomal Location of Human Ortholog: 16q12.1 Cellular Component: early endosome; cytoplasm; plasma membrane; beta-catenin destruction complex; nucleus; cytosol Molecular Function: protein C-terminus binding; protein binding; zinc ion binding; ubiquitin-protein ligase activity; ligase activity Biological Process: ubiquitin-dependent protein catabolic process; proteasomal ubiquitin-dependent protein catabolic process; nervous system development; axon guidance; anatomical structure morphogenesis; neuron apoptosis; protein destabilization; apoptosis; positive regulation of apoptosis; protein ubiquitination during ubiquitin-dependent protein catabolic process; spermatogenesis; protein catabolic process; cell cycle
Research Articles on SIAH1	**1.** miR-135a/SIAH1/beta-catenin signaling is important in the transformation and progression of cervical carcinoma.
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