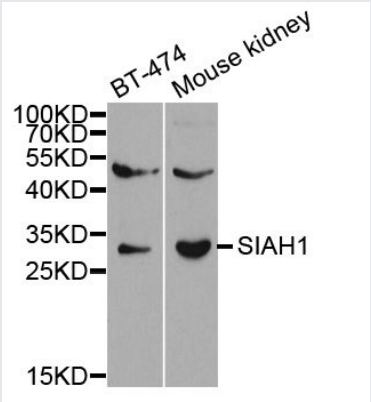
SIAH1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SIAH1, Polyclonal Antibody
Full Product Name	SIAH1 Polyclonal Antibody
Product Gene Name	anti-SIAH1 antibody
Product Synonym Names	SIAH1A
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	Observed MW: 31kDa Calculated MW: 21kDa/31kDa/34kDa
OMIM	U63295 mRNA
3D Structure	ModBase 3D Structure for O43278
Immunogen	Recombinant protein of human SIAH1
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Product Categories/Family for anti-SIAH1 antibody	Primary antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SIAH1 antibody	Western Blot (WB)
Related Product Information for anti-SIAH1 antibody	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.
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.
Searchable Terms for SIAH1 purchase	MBS9132383 is an antibody targeting SIAH1. Also known as SIAH1 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-SIAH1 antibody
Western blot analysis of extracts of various cell lines, using SIAH1 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.

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 #	O43278
UniProt Secondary Accession #	O43269; Q49A58; Q92880; A0FKF3
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	RING-type E3 ubiquitin transferase SIAH1Curated; 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
NCBI Protein Information	E3 ubiquitin-protein ligase SIAH1

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: Apoptosis; Cell development/differentiation; EC 6.3.2.-; EC 6.3.2.19; Ligase; Motility/polarity/chemotaxis; Ubiquitin conjugating system; Ubiquitin ligase Chromosomal Location of Human Ortholog: 16q12.1 Cellular Component: beta-catenin destruction complex; cytoplasm; cytosol; nucleus Molecular Function: identical protein binding; protein binding; protein C-terminus binding; ubiquitin-protein ligase activity; zinc ion binding Biological Process: anatomical structure morphogenesis; apoptosis; axon guidance; cellular protein metabolic process; nervous system development; neuron apoptosis; positive regulation of apoptosis; proteasomal ubiquitin-dependent protein catabolic process; protein catabolic process; protein polyubiquitination; protein ubiquitination during ubiquitin-dependent protein catabolic process; ubiquitin-dependent protein catabolic process
Research Articles on SIAH1	**1.** Results suggest that activated STAT3 regulates active beta-catenin protein levels via stabilization of SIAH-1 and the subsequent ubiquitin-dependent proteasomal degradation of beta-catenin in HEK293T cells.
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