

## Goat anti-SIAH1, Biotinylated Antibody

Peptide-affinity purified goat antibody Catalog # AF4422a

## **Product Information**

Application	WB, IP, Pep-ELISA
Primary Accession	<u>Q8IUQ4</u>
Other Accession	<u>NP_003022.3</u> , <u>NP_001006611.1</u>
Reactivity	Human, Mouse, Rat, Dog, Bovine
Host	Goat
Clonality	Polyclonal
Clone Names	SIAH1
Calculated MW	31123

## **Additional Information**

Gene ID	6477
Other Names	SIAH1; siah E3 ubiquitin protein ligase 1; SIAH1A; seven in absentia homolog 1; siah-1a
Dilution	WB~~1:1000 IP~~N/A Pep-ELISA~~N/A
Format	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
Immunogen	This antibody is expected to recognize both reported isoforms (NP_003022.3; NP_001006611.1).
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Goat anti-SIAH1, Biotinylated Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## **Protein Information**

Name	SIAH1
Synonyms	HUMSIAH
Function	E3 ubiquitin-protein ligase that mediates ubiquitination and subsequent proteasomal degradation of target proteins (PubMed: <u>14506261</u> , PubMed: <u>14645235</u> , PubMed: <u>14654780</u> , PubMed: <u>15064394</u> , PubMed: <u>16085652</u> , PubMed: <u>19224863</u> , PubMed: <u>20508617</u> ,

	PubMed:22483617, PubMed:28546513, PubMed:32430360, PubMed:33591310, PubMed:9334332, PubMed:9858595). 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 (PubMed:14506261, PubMed:16085652, PubMed:19224863, PubMed:20508617, PubMed:16085652, PubMed:19224863, PubMed:20508617, PubMed:22483617, PubMed:9334332, PubMed:9858595). Mediates E3 ubiquitin ligase activity either through direct binding to substrates or by functioning as the essential RING domain subunit of larger E3 complexes (PubMed:14506261, PubMed:14645235, PubMed:14654780, PubMed:20508617, PubMed:22483617, PubMed:9334332, PubMed:9858595). Triggers the ubiquitin-mediated degradation of many substrates, including proteins involved in transcription regulation (ELL2, 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 (PubMed:10747903, PubMed:1146551, PubMed:11389839, PubMed:11389840, PubMed:11483517, PubMed:11483518, PubMed:11752454, PubMed:12072443). Confers constitutive instability to HIPK2 through proteasomal degradation (PubMed:15064394, PubMed:16085652, PubMed:12072443). Confers constitutive instability to HIPK2 through proteasomal degradation (PubMed:15064394, PubMed:16085652, PubMed:120508617, PubMed:15064394, PubMed:16085652, PubMed:19224863, PubMed:15064394, PubMed:16085652, PubMed:19224863, PubMed:15064394, PubMed:16085652, PubMed:19224863, PubMed:16085652, PubMed:19224863, PubMed:19224863, PubMed:16085652, PubMed:19224863, PubMed:9858595). Induces apoptosis in cooperation with PEG3 (By similarity). Upon nitric oxid (NO) generation that follows apoptotic stimulation, interacts with S-nitrosylated GAPDH, mediating the translocatio
Cellular Location	Cytoplasm. Nucleus. Note=Predominantly cytoplasmic. Partially nuclear
Tissue Location	Widely expressed at a low level. Down-regulated in advanced hepatocellular carcinomas.

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