

# Anti-SIAH1/2 Antibody

Catalog # AP53797

# **Product Information**

Application	WB, IF
Primary Accession	<u>Q8IUQ4</u>
Other Accession	<u>043255</u>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31123

### **Additional Information**

Gene ID	6477
Other Names	SIAH1; HUMSIAH; E3 ubiquitin-protein ligase SIAH1; Seven in absentia homolog 1; Siah-1; Siah-1a; SIAH2; E3 ubiquitin-protein ligase SIAH2; Seven in absentia homolog 2; Siah-2; hSiah2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SIAH1/2. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 IF~~1/50 - 1/200
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

#### **Protein Information**

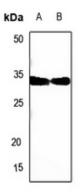
Name	SIAH1
Synonyms	HUMSIAH
Function	E3 ubiquitin-protein ligase that mediates ubiquitination and subsequent proteasomal degradation of target proteins (PubMed: <u>14506261</u> , PubMed: <u>14645235</u> , PubMed: <u>14654780</u> , PubMed: <u>15064394</u> , PubMed: <u>16085652</u> , PubMed: <u>19224863</u> , PubMed: <u>20508617</u> , PubMed: <u>22483617</u> , PubMed: <u>28546513</u> , PubMed: <u>32430360</u> , PubMed: <u>33591310</u> , PubMed: <u>9334332</u> , PubMed: <u>9858595</u> ). 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: <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: <u>22483617</u> , PubMed: <u>9334332</u> , PubMed: <u>9858595</u> ).

	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:15064394, PubMed:16085652, PubMed:19224863, 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 (SVP), a structural protein (CTNNB1) and SNCAIP (PubMed:10747903, PubMed:11146551, PubMed:11483518, PubMed:11752454, PubMed:12072443). Confers constitutive instability to HIPK2 through proteasomal degradation (PubMed:18536714, PubMed:33591310). It is thereby involved in many cellular processes such as apoptosis, tumor suppression, cell cycle, axon guidance, transcription regulation, spermatogenesis and TNF-alpha signaling (PubMed:15064394, PubMed:16085652, PubMed:14504780, PubMed:15064394, PubMed:16085652, PubMed:19224863, PubMed:15064394, PubMed:16085652, PubMed:19224863, PubMed:16085652, PubMed:19224863, PubMed:20508617, PubMed:19224863, PubMed:20508617, PubMed:16085652, PubMed:19224863, PubMed:20508617, PubMed:16085652, PubMed:19224863, PubMed:20508617, PubMed:16085652, PubMed:19224863, PubMed:20508617, PubMed:16085652, PubMed:19224863, PubMed:20508617, PubMed:20508617, PubMed:20508617,
Cellular Location	Cytoplasm. Nucleus. Note=Predominantly cytoplasmic. Partially nuclear
Tissue Location	Widely expressed at a low level. Down-regulated in advanced hepatocellular carcinomas.

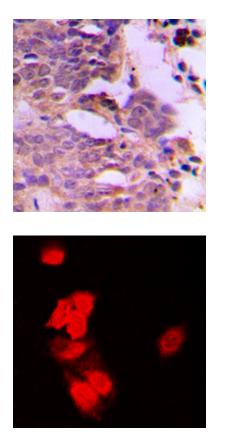
# Background

Rabbit polyclonal antibody to SIAH1/2

## Images



Western blot analysis of SIAH1/2 expression in mouse muscle (A), rat muscle (B) whole cell lysates.



Immunohistochemical analysis of SIAH1/2 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Immunofluorescent analysis of SIAH1/2 staining in HeLa 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.