

Product datasheet for **AP20448PU-N**

SIAH1 (+SIAH2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunofluorescence: 1/50-1/200. Immunohistochemistry on Paraffin Sections: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of Siah-1/2 protein.
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 15 mM Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~40.0 kDa
Gene Name:	siah E3 ubiquitin protein ligase 1
Database Link:	<u>Entrez Gene 140941 Rat</u> <u>Entrez Gene 6477 Human</u> <u>Q8IUQ4</u>



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Background:

SIAH, the human homologue of the *Drosophila* seven in absentia (*sina*) gene, is a tumor suppressor protein that is expressed in intestinal epithelium and activated during apoptosis. Human SIAH proteins are produced as two distinct gene products, SIAH-1, and a slightly larger protein SIAH-2, which share a highly conserved C-terminal sequence and differ in their N-terminal regions. SIAH-1 is a 32 kDa protein that contains an N-terminal RING-finger domain, which is required for proteolysis, and a cysteine-rich C-terminal domain, which regulates oligomerization and SIAH binding to target proteins. As a tumor suppressor, SIAH-1 binds DCC (deleted in colorectal cancer) and regulates DCC degradation via the ubiquitin-proteasome pathway. SIAH-1 also binds a Bcl-2 related protein, Bag-1, thereby inhibiting cell growth. The majority of SIAH-1 is localized to the nucleus, however a small percentage is detected in the cytoplasm. This nuclear localization suggests that SIAH proteins may interact with other nuclear matrix proteins and DNA.

Synonyms:

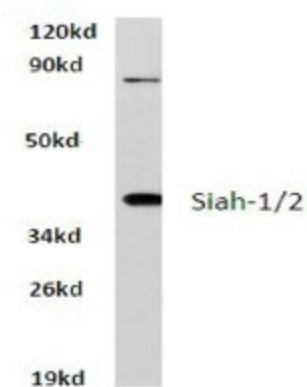
Siah-1, Siah-1a, HUMSIAH

Protein Families:

Druggable Genome

Protein Pathways:

p53 signaling pathway, Ubiquitin mediated proteolysis, Wnt signaling pathway

Product images:

Western blot analysis of Siah-1/2 Antibody (Cat. No AP20448PU-N) in extracts from HeLa cells at 1/500 dilution.