

Product datasheet for **AP20493PU-M**

SIAH2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: 1/500 - 1/1000. Immunohistochemistry on paraffin sections: 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of Siah-2 protein. (region surrounding Glu266)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
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:	~ 38 kDa
Gene Name:	siah E3 ubiquitin protein ligase 2
Database Link:	<u>Entrez Gene 20439 Mouse</u> <u>Entrez Gene 140593 Rat</u> <u>Entrez Gene 6478 Human</u> <u>O43255</u>



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Background:

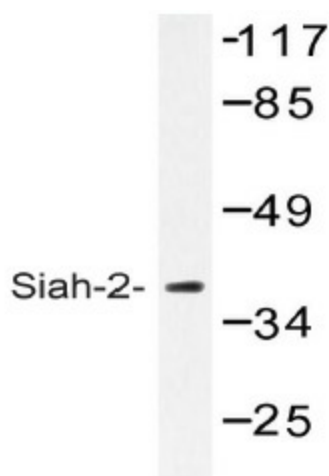
SIAH-2 (seven in absentia homolog 2) is an E3 ligase that catalyzes ubiquitination and proteasome-mediated degradation of protein substrates. SIAH-2 encodes a 324 amino acid protein that shares 77% identity with human SIAH-1 and 68% identity with the *Drosophila* sina (seven in absentia) gene, on which development of the *Drosophila* R7 photoreceptor is dependent. SIAH-2 targets TRAF2 (which regulates cell responses to stress and cytokines through the regulation of key stress-signaling cascades) for degradation under stress conditions such as hypoxia. It targets HIF-1alpha prolyl hydroxylase 3 (PHD3) for degradation upon exposure to hypoxic conditions, which coincides with an increase in SIAH-2 transcription. SIAH-2 can decrease TNF-alpha-dependent induction of JNK activity and transcriptional activation of NFkappaB. SIAH-2 null mice subjected to hypoxia display an impaired respiratory response and reduced levels of hemoglobin.

Synonyms:

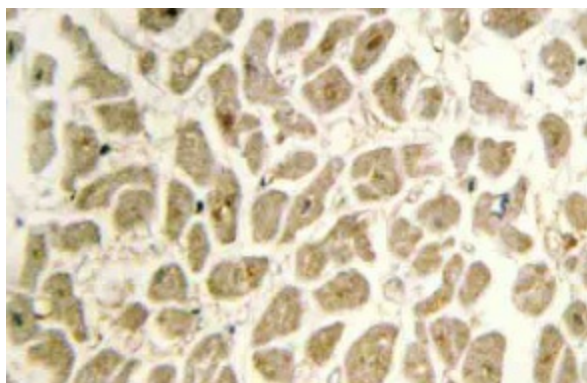
Siah-2

Protein Families:

Druggable Genome, Transcription Factors

Product images:


Western blot (WB) analysis of Siah-2 antibody (Cat.-No.: [AP20493PU-N]) in extracts from COLO cells.



Immunohistochemistry (IHC) analyzes of Siah-2 antibody (Cat.-No.: [AP20493PU-N]) in paraffin-embedded human heart tissue.