

Product Name: Siah-1/2 Rabbit Polyclonal Antibody
Catalog #: APRab17883



Summary

Production Name	Siah-1/2 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	SIAH1/SIAH2 SIAH1; HUMSIAH; E3 ubiquitin-protein ligase SIAH1; Seven in absentia homolog 1;
Alternative Names	Siah-1; Siah-1a; SIAH2; E3 ubiquitin-protein ligase SIAH2; Seven in absentia homolog 2; Siah-2; hSiah2
Gene ID	6477/6478
SwissProt ID	Q8IUQ4/O43255.The antiserum was produced against synthesized peptide derived from human SIAH1. AA range:181-230

Application

Dilution Ratio	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
Molecular Weight	34kD

Background

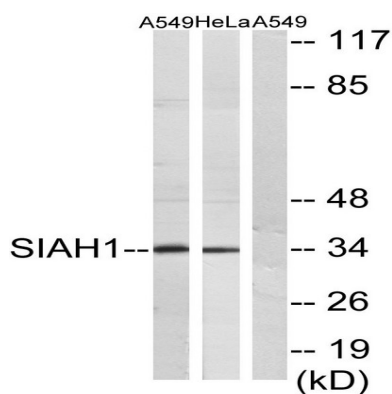
This gene encodes a protein that is a member of the seven in absentia homolog (SIAH) family. The protein is an E3 ligase and is involved in ubiquitination and proteasome-mediated degradation of specific proteins. The activity of this ubiquitin ligase has been implicated in the development of certain 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. [provided by RefSeq, Jul 2008],domain:The RING-type zinc finger domain is essential for ubiquitin ligase activity.,domain:The SBD domain (substrate-binding domain) mediates the homodimerization and the interaction with substrate proteins. It is related to the TRAF family.,function: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), cytoplasmic signal transduction molecules (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. 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.,induction:May be induced by TP53/p53, suggesting that it may be required to modulate TP53 response. The relevance of such activity in vivo is however unclear and may not exist.,pathway:Protein modification; protein ubiquitination.,similarity:Belongs to the SINA (Seven in absentia) family.,similarity:Contains 1 RING-type zinc finger.,similarity:Contains 1 SIAH-type zinc finger.,subcellular location:Predominantly cytoplasmic. Partially nuclear.,subunit:Homodimer. Interacts with group 1 glutamate receptors GRM1 and GRM5. Interacts with DAB1, which may inhibit its activity. Interacts with UBE2E2. Interacts with PEG3 (By similarity). 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.,tissue specificity:Widely expressed at low level. Down-regulated in advanced hepatocellular carcinomas.,

Research Area

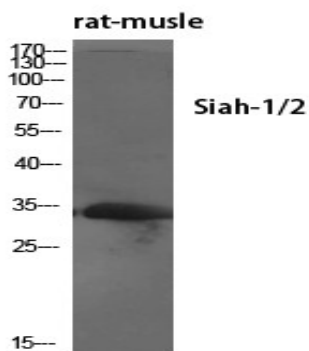
p53;Ubiquitin mediated proteolysis;WNT;WNT-T CELL

Image Data

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Western blot analysis of lysates from A549 and HeLa cells, using SIAH1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using Siah-1/2 Polyclonal Antibody diluted at 1: 500



Western Blot analysis of HeLa cells using Siah-1/2 Polyclonal Antibody diluted at 1: 500

Note

For research use only.