

Siah-1/2 Polyclonal Antibody

Catalog No :	YT4296
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	Siah-1/2
Fields :	>>p53 signaling pathway;>>Ubiquitin mediated proteolysis;>>Wnt signaling pathway
Gene Name :	SIAH1/SIAH2
Protein Name :	E3 ubiquitin-protein ligase SIAH1/2
Human Gene Id :	6477/6478
Human Swiss Prot No :	Q8IUQ4/O43255
Mouse Gene Id :	20439
Rat Gene Id :	140941/140593
Rat Swiss Prot No :	Q920M9/Q8R4T2
Immunogen :	The antiserum was produced against synthesized peptide derived from human SIAH1. AA range:181-230
Specificity :	Siah-1/2 Polyclonal Antibody detects endogenous levels of Siah-1/2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 34kD

Cell Pathway : p53;Ubiquitin mediated proteolysis;WNT;WNT-T CELL

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],

Function : 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

Subcellular Location : Cytoplasm. Nucleus. Predominantly cytoplasmic. Partially nuclear.

Expression : Widely expressed at a low level. Down-regulated in advanced hepatocellular carcinomas.

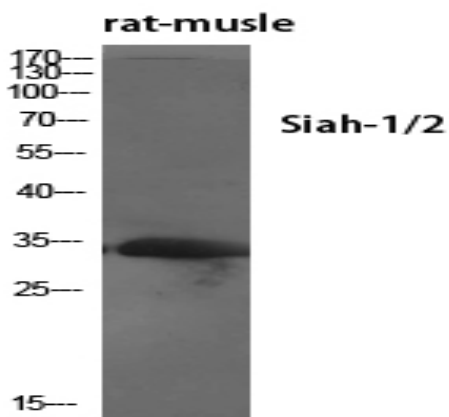
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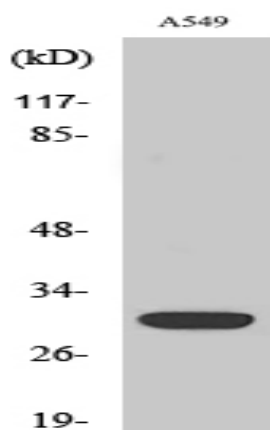
Host : Rabbit

Modifications : Unmodified

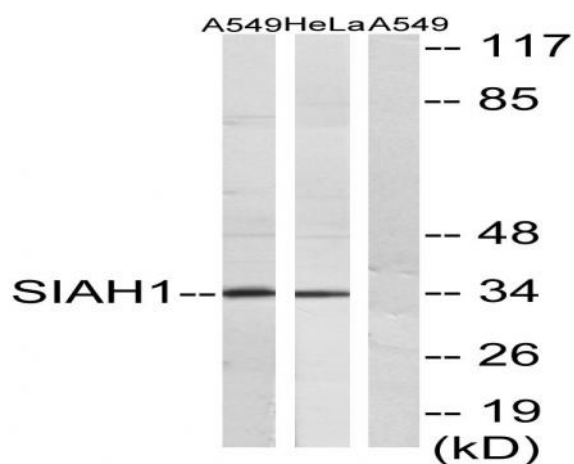
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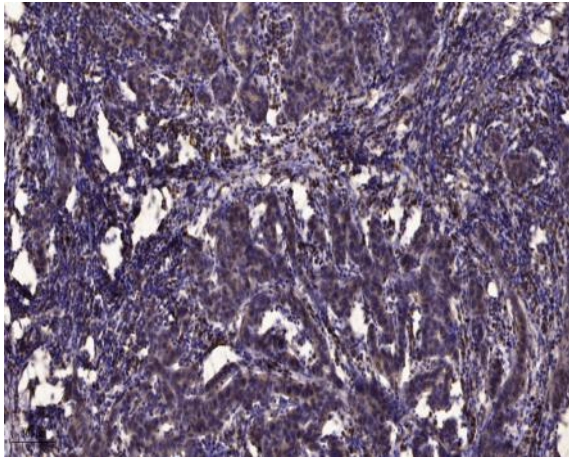
Western Blot analysis of various cells using Siah-1/2 Polyclonal Antibody diluted at 1:500



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



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



Immunohistochemical analysis of paraffin-embedded human Breast cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).