abcam

Product datasheet

Anti-SIAH1 antibody ab2237

★★★★★ 1 Abreviews 33 References 4 图像

概述

产品名称	Anti-SIAH1抗体
描述	**山羊多克隆抗体**to SIAH1
宿主	Goat
经测试应用	**适用于:** WB, ICC/IF
种属反应性	**与反应:** Rat, Human **预测可用于:** Mouse, Cow, Dog
免疫原	Synthetic peptide corresponding to Human SIAH1 aa 2-16 (N terminal). Sequence: SRQTATALPTGTSKC Database link: **Q8IUQ4** (Peptide available as **ab22876**) Run BLAST with Run BLAST with
阳性对照	WB: Rat liver lysate, human liver lysate. ICC/IF- U2OS cells and HepG2 cells.
常规说明	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.05% Tris, 0.5% BSA
纯度	Immunogen affinity purified
纯化说明	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity

chromatography using the immunizing peptide.

克隆	**多克隆**
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab2237于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

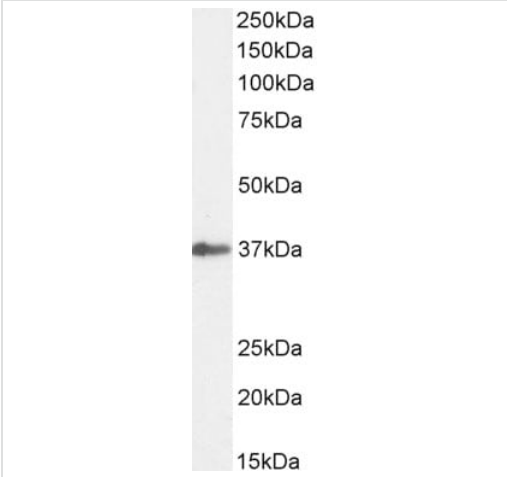
应用	Ab评论	说明
WB	★★★★★ (1)	Use a concentration of 1 - 3 µg/ml. Predicted molecular weight: 31 kDa. 1 hour primary incubation at room temperature is recommended for this product.
ICC/IF		Use a concentration of 10 µg/ml.

靶标

功能	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), 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 (SYP), a structural protein (CTNNB1) and SNCAIP. Confers constitutive instability to HIPK2 through proteasomal degradation. 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. Upon nitric oxid (NO) generation that follows apoptotic stimulation, interacts with S-nitrosylated GAPDH, mediating the translocation of GAPDH to the nucleus. GAPDH acts as a stabilizer of SIAH1, facilitating the degradation of nuclear proteins.
组织特异性	Widely expressed at a low level. Down-regulated in advanced hepatocellular carcinomas.
通路	Protein modification; protein ubiquitination.
序列相似性	Belongs to the SINA (Seven in absentia) family. Contains 1 RING-type zinc finger. Contains 1 SIAH-type zinc finger.
结构域	The RING-type zinc finger domain is essential for ubiquitin ligase activity. The SBD domain (substrate-binding domain) mediates the homodimerization and the interaction with substrate proteins. It is related to the TRAF family.
翻译后修饰	Phosphorylated on Ser-19 by ATM and ATR. This phosphorylation disrupts SIAH1 interaction with HIPK2, and subsequent proteasomal degradation of HIPK2.

细胞定位	Cytoplasm. Nucleus. Predominantly cytoplasmic. Partially nuclear.

图片

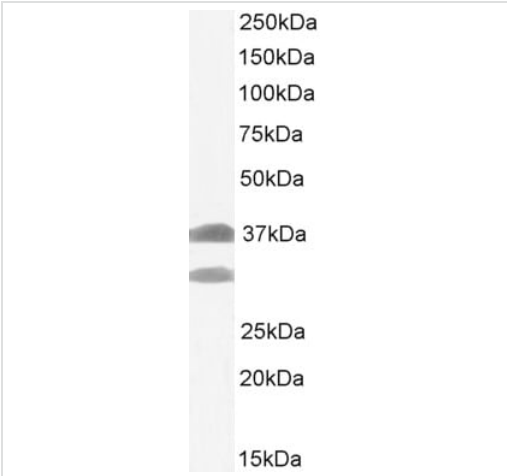


Western blot - Anti-SIAH1 antibody (ab2237)

Anti-SIAH1 antibody (ab2237) at 1 mg/ml + Human liver lysate at 35 µg

Predicted band size: 31 kDa
Observed band size: 37 kDa

Primary incubation 1 hour at room temperature. Detected by chemiluminescence. RIPA buffer was used.

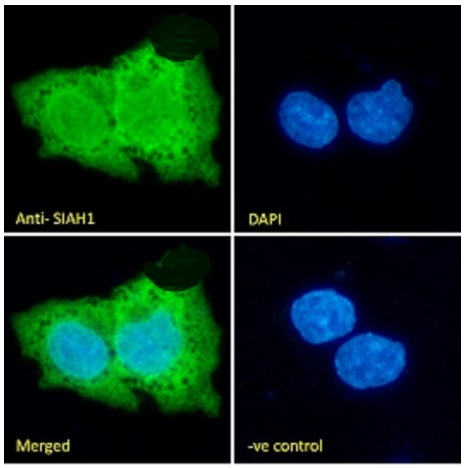


Western blot - Anti-SIAH1 antibody (ab2237)

Anti-SIAH1 antibody (ab2237) at 1 µg/ml + Rat liver lysate at 35 µg

Predicted band size: 31 kDa
Observed band size: 30, 37 kDa

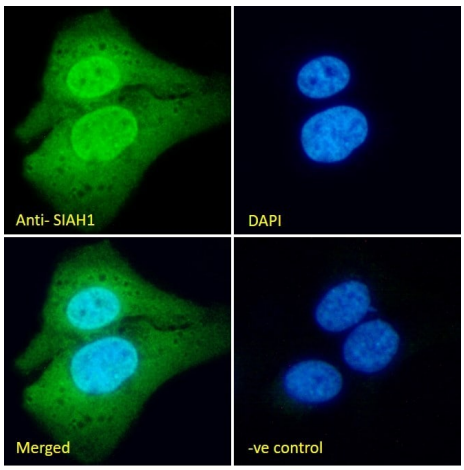
Primary incubation 1 hour at room temperature. Detected by chemiluminescence. RIPA buffer was used.



Immunocytochemistry/ Immunofluorescence - Anti-SIAH1 antibody (ab2237)

Immunofluorescence analysis of paraformaldehyde fixed, 0.15% Triton permeabilized HepG2 (human liver hepatocellular carcinoma cell) cells labelling SIAH1 with primary anti-SIAH1 antibody (ab2237) at 10ug/ml for 1 hour, followed by Alexa Fluor 488 secondary antibody at 2ug/ml. Image showing nuclear and cytoplasmic staining. The nuclear counterstain is DAPI (blue).

Negative control: Unimmunized goat IgG at 10ug/ml followed by Alexa Fluor 488 secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-SIAH1 antibody (ab2237)

Immunofluorescence analysis of paraformaldehyde fixed, 0.15% Triton permeabilized U2OS (human bone osteosarcoma epithelial cell) cells labelling SIAH1 with primary anti-SIAH1 antibody (ab2237) at 10ug/ml for 1 hour, followed by Alexa Fluor 488 secondary antibody at 2ug/ml. Image showing nuclear and cytoplasmic staining. The nuclear counterstain is DAPI (blue).

Negative control: Unimmunized goat IgG at 10ug/ml followed by Alexa Fluor 488 secondary antibody.

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