abcam

Product datasheet

Anti-Stromal interaction molecule 1 antibody [EPR3414] ab108994





RabMAb

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概述

产品名称 Anti-Stromal interaction molecule 1抗体[EPR3414]

描述 兔单克隆抗体[EPR3414] to Stromal interaction molecule 1

宿主 Rabbit

适用于: WB, IHC-P

不适用于: Flow Cyt or ICC/IF

种属反应性 与反应: Mouse, Human

预测可用于: Rat 🕰

免疫原 Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

阳性对照 SH SY5Y, K562, HepG2, HeLa and LnCaP cell lysates; Human breast tissue.

常规说明 This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility

- Improved sensitivity and specificity

- Long-term security of supply

- Animal-free production

For more information see here.

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb**[®] **patents**.

性能

形式 Liquid

存放说明 Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.

存储溶液 pH: 7.20

Preservative: 0.01% Sodium azide

Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture

supernatant

纯**度** Protein A purified

克隆 单克隆

1

克隆编号 EPR3414

同种型 IgG

应用

The Abpromise quarantee

Abpromise™承诺保证使用ab108994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		1/1000 - 1/10000. Predicted molecular weight: 77 kDa.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Antigen retrieval with citrate buffer (pH 6): Heat up to 98°C, below boiling, and then let cool for 10-20 min.

应用说明

Is unsuitable for Flow Cyt or ICC/IF.

靶标

功能 Plays a role in mediating Ca(2+) influx following depletion of intracellular Ca(2+) stores. Acts as

Ca(2+) sensor in the endoplasmic reticulum via its EF-hand domain. Upon Ca(2+) depletion, translocates from the endoplasmic reticulum to the plasma membrane where it activates the

Ca(2+) release-activated Ca(2+) (CRAC) channel subunit, TMEM142A/ORAI1.

组织特异性 Ubiquitously expressed in various human primary cells and tumor cell lines.

疾病相关 Defects in STIM1 are the cause of immune dysfunction with T-cell inactivation due to calcium entry

defect type 2 (IDTICED2) [MIM:612783]. IDTICED2 is an immune disorder characterized by recurrent infections, impaired T-cell activation and proliferative response, decreased T-cell production of cytokines, lymphadenopathy, and normal lymphocytes counts and serum immunoglobulin levels. Additional features include thrombocytopenia, autoimmune hemolytic anemia, non-progressive myopathy, partial iris hypoplasia, hepatosplenomegaly and defective

enamel dentition.

序列相似性 Contains 1 EF-hand domain.

Contains 1 SAM (sterile alpha motif) domain.

结**构域** The microtubule tip localization signal (MtLS) motif; mediates interaction with MAPRE1 and

targeting to the growing microtubule plus ends.

翻译后修饰 Glycosylation is required for cell surface expression.

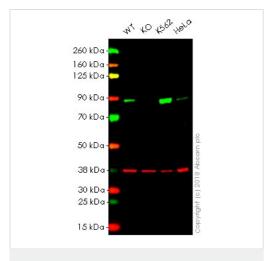
Phosphorylated predominantly on Ser residues.

细胞定位 Cell membrane. Endoplasmic reticulum membrane. Cytoplasm > cytoskeleton. Translocates from

the endoplasmic reticulum to the cell membrane in response to a depletion of intracellular calcium.

Associated with the microtubule network at the growing distal tip of microtubules.

图片



Western blot - Anti-Stromal interaction molecule 1 antibody [EPR3414] (ab108994)

All lanes : Anti-Stromal interaction molecule 1 antibody [EPR3414] (ab108994) at 1/1000 dilution

Lane 1: Wild-type HAP1 whole cell lysate

Lane 2: STIM1 (Stromal interaction molecule 1) knockout HAP1 whole cell lysate

Lane 3: K562 whole cell lysate

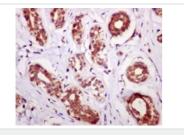
Lane 4: HeLa whole cell lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 77 kDa **Observed band size:** 77 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab108994 observed at 77 kDa. Red - loading control, <u>ab9484</u>, observed at 37 kDa.

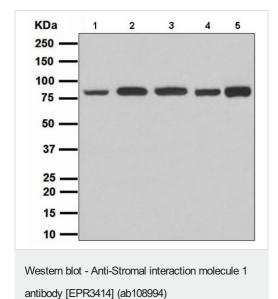
ab108994 was shown to specifically react with Stromal interaction molecule 1 in wild-type HAP1 cells as signal was lost in STIM1 (Stromal interaction molecule 1) knockout cells. Wild-type and STIM1 (Stromal interaction molecule 1) knockout samples were subjected to SDS-PAGE. Ab108994 and ab9484 (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ab216773 and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ab216776 secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Stromal interaction molecule 1 antibody [EPR3414] (ab108994)

ab108994 at 1/50 dilution, staining Stromal interaction molecule 1 in Human breast by Immunohistochemistry, Paraffin-embedded tissue.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



All lanes : Anti-Stromal interaction molecule 1 antibody [EPR3414] (ab108994) at 1/1000 dilution

Lane 1: SH SY5Y cell lysate
Lane 2: K562 cell lysate

Lane 3: HepG2 cell lysate

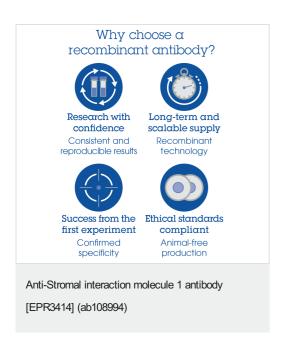
Lane 4 : HeLa cell lysate

Lane 5: LnCaP cell lysate

Lysates/proteins at 10 µg per lane.

Performed under reducing conditions.

Predicted band size: 77 kDa



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