Datasheet for ABIN3043940

anti-STIM1 antibody (N-Term)

4 Images

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Overview

Quantity:	100 µg
Target:	STIM1
Binding Specificity:	AA 45-74, N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This STIM1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Stromal interaction molecule 1(STIM1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human STIM1(45-74aa AAEFCRIDKPLCHSEDEKLSFEAVRNIHKL), identical to the related mouse and rat sequences.
Sequence:	AAEFCRIDKP LCHSEDEKLS FEAVRNIHKL
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Stromal interaction molecule 1(STIM1) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: stromal interaction molecule 1 Protein Name: Stromal interaction molecule 1

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	STIM1
Alternative Name:	STIM1 (STIM1 Products)
Background:	Stromal interaction molecule 1 is a protein that in humans is encoded by the STIM1 gene. STIM1 has a single transmembranedomain, and is localized to the endoplasmic reticulum, and to a lesser extent to the plasma membrane. This gene encodes a type 1 transmembrane protein that mediates Ca2+ influx after depletion of intracellular Ca2+ stores by gating of store-operated Ca2+ influx channels (SOCs). It is one of several genes located in the imprinted gene domain of 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with the Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocrotical carcinoma, and lung, ovarian, and breast cancer. This gene may play a role in malignancies and disease that involve this region, as well as early hematopoiesis, by mediating attachment to stromal cells. Mutations in this gene are associated with fatal classic Kaposi sarcoma, immunodeficiency due to defects in store-operated calcium entry (SOCE) in fibroblasts, ectodermal dysplasia and tubular aggregate myopathy. This gene is oriented in a head-to-tail configuration with the ribonucleotide reductase 1 gene (RRM1), with the 3' end of this gene situated 1.6 kb from the 5' end of the RRM1 gene. Alternative splicing of this gene results in multiple transcript variants. Synonyms: D11S4896E antibody|GOK antibody|OTTHUMP00000164512 antibody|OTTHUMP00000229140 antibody|OTTHUMP00000230742 antibody
Gene ID:	6786
UniProt:	Q13586
Pathways:	TCR Signaling, BCR Signaling

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Other applications have not been tested.

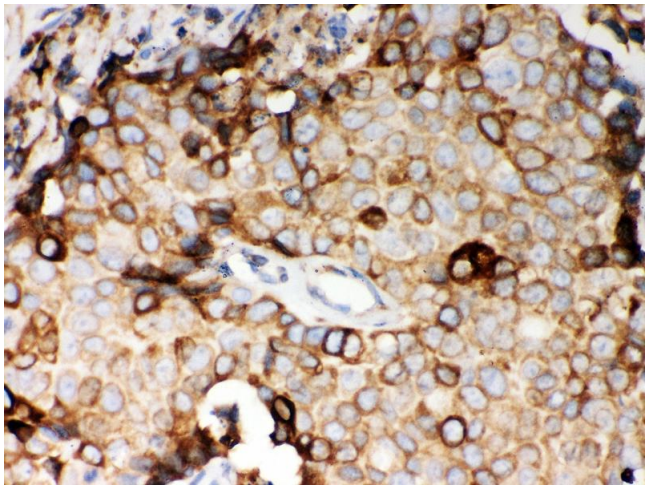
Application Details

	Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

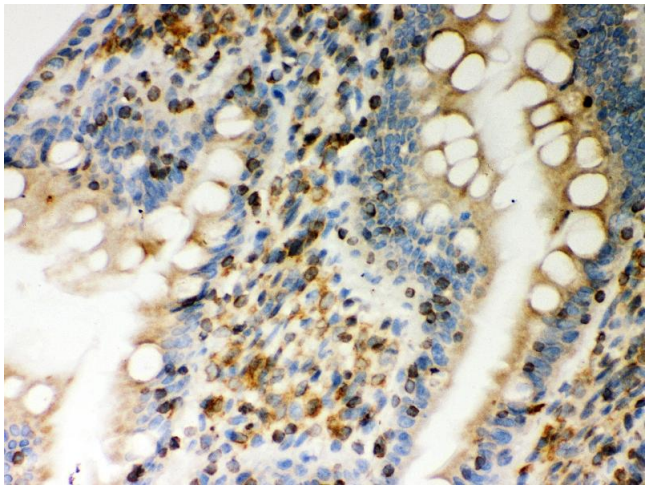
Images



Immunohistochemistry

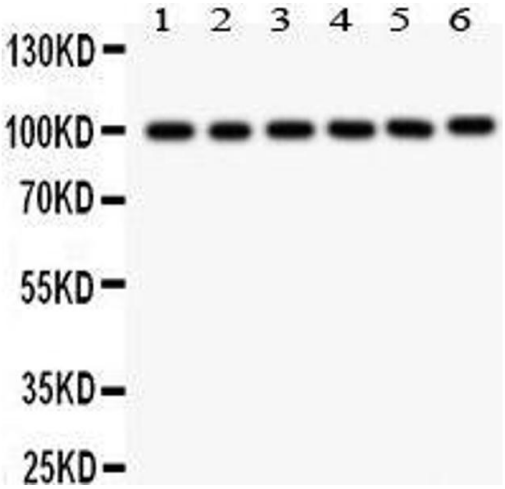
Image 1. Anti- STIM1 Picoband antibody, IHC(P) IHC(P): Human Mammary Cancer Tissue

Images



Immunohistochemistry

Image 2. Anti- STIM1 Picoband antibody, IHC(P) IHC(P): Rat Intestine Tissue



Western Blotting

Image 3. Anti- STIM1 Picoband antibody, Western blotting All lanes: Anti STIM1 at 0.5ug/ml Lane 1: Rat Liver Tissue Lysate at 50ug Lane 2: Mouse Liver Tissue Lysate at 50ug Lane 3: Human Placenta Tissue Lysate at 50ug Lane 4: HELA Whole Cell Lysate at 40ug Lane 5: SMMC Whole Cell Lysate at 40ug Lane 6: HEPG2 Whole Cell Lysate at 40ug Predicted bind size: 77KD Observed bind size: 100KD

Please check the product details page for more images. Overall 4 images are available for ABIN3043940.