Datasheet for ABIN238397

anti-STIM1 antibody (C-Term, Cytoplasmic Domain)

2 Images

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Overview

Quantity:	0.1 mg
Target:	STIM1
Binding Specificity:	C-Term, Cytoplasmic Domain
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This STIM1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

Product Details

Immunogen:	Synthetized peptide (C-terminal cytoplasmic part of STIM1)
Clone:	CDN3H4
Isotype:	IgG1
Specificity:	The antibody CDN3H4 reacts with human and rodent STIM1, a 84 kDa essential and conserved regulator of store-operated Ca2+ channel function.
Cross-Reactivity (Details):	Species reactivity (tested):Human, Mouse, Rat.
Characteristics:	Synonyms: Stromal interaction molecule 1
Purification:	Protein-A affinity chromatography

Target Details

Target:	STIM1
Alternative Name:	STIM1 / GOK (STIM1 Products)
Background:	STIM1 (stromal interacting molecule, also known as GOK) acts as a sensor of calcium depletion within the endoplasmic reticulum and transduces the signal to Orai1, the presumptive CRAC channel at the plasma membrane. Following decrease of luminal calcium concentration, STIM1 oligomerizes and induces Orai1 to enable entry of extracellular calcium into the cytoplasm. However, the precise mechanism of STIM1-Orai1 interaction has not been elucidated yet. Many questions also remain to be solved around STIM1 functional distribution. It turns out that STIM1 associates with growing ends of microtubules and is involved in endoplasmic reticulum tubule extension.Synonyms: Stromal interaction molecule 1
Gene ID:	6786
UniProt:	Q13586
Pathways:	TCR Signaling, BCR Signaling

Application Details

Application Notes:	Immunoprecipitation. Western Blotting (reducing and non-reducing conditions): Recommended dilution: 1 µg/mLPositive control: RBL rat basophilic leukemia cell lineSample preparation: Resuspend approx.50 mil. cells in 1 mLcold Lysis buffer (1 % laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Proteaseinhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysatewith non-reducing/reducing Laemmli SDS-PAGE sample buffer. Immunocytochemistry: Staining technique: methanol-aceton fixation. Positive control: HeLa human cervix carcinoma cell line. Immunohistochemistry (paraffin sections): Recommended dilution: 5 µg/mL Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

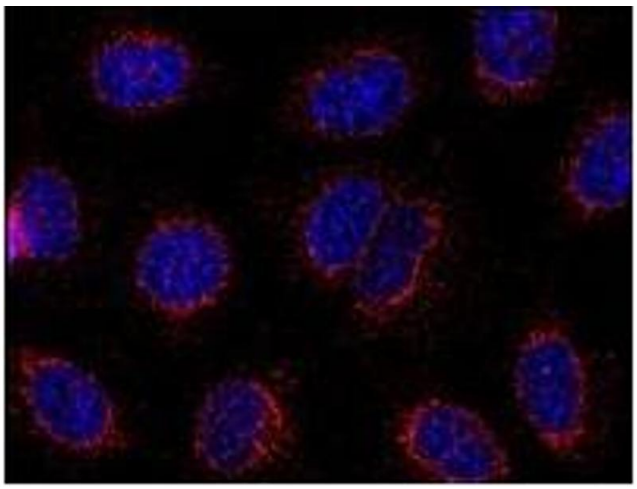
Handling

Concentration:	1.0 mg/mL
Buffer:	PBS, pH 7.4, 15 mM Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

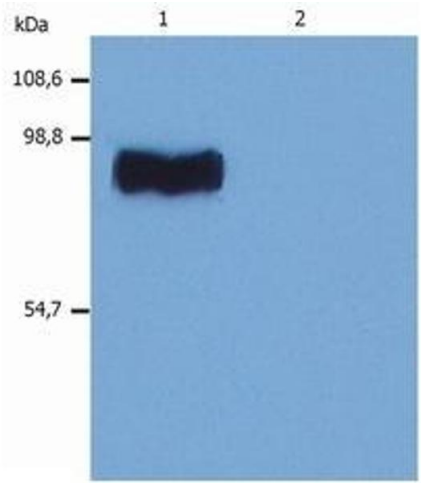
	should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
Expiry Date:	12 months

Images



Immunofluorescence

Image 1.



Western Blotting

Image 2.