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Datasheet for 600-401-J48

STIM1 Antibody

Overview

Description:	Anti-STIM1 (RABBIT) Antibody - 600-401-J48
Item No.:	600-401-J48
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	Stim I antibody helps regulate calcium influx after the depletion of intracellular calcium stores. It functions as a calcium sensor in the endoplasmic reticulum via its EF-hand domain. After depletion of Ca+2, it is translocated from the endoplasmic reticulum to the plasma membrane so the calcium release-activated channel subunit is activated. Anti-Stim I antibody is ideal for investigators interested in Metabolism and Signal Transduction research.
Synonyms:	rabbit anti-STIM1 antibody, Stromal interaction molecule 1, STIM-1, STIM 1, GOK
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	STIM1
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Stim 1 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide near the C-terminus of human Stim 1.

Purity/Specificity:	Anti-Stim I was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest cross-reactivity with rat, human, bovine, and mouse based on 100% sequence homology. Cross-reactivity with Stim I from other sources has not been determined.
Relevant Links:	• GeneID - 6786 • NCBI - NP_003147.2 • UniProtKB - Q13586

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Stim I antibody is tested for ELISA, immunohistochemistry, and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~77kDa corresponding to the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1: 10,000
IHC:	5ug/ml
WB:	1ug/ml

Formulation

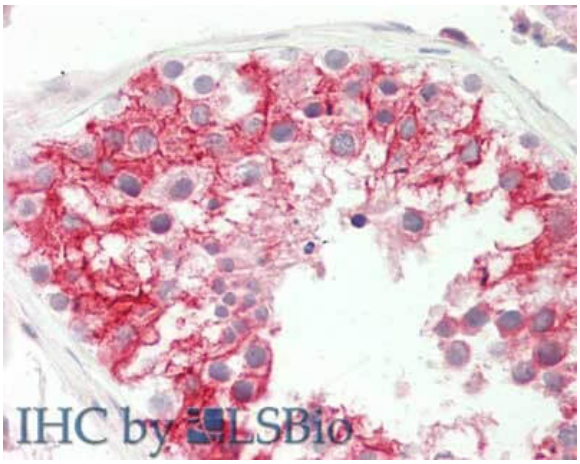
Physical State:	Liquid (sterile filtered)
Concentration:	1.03 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	None
Stabilizer:	50% (v/v) Glycerol with 1 mg/ml Bovine Serum Albumin (BSA)

Shipping & Handling

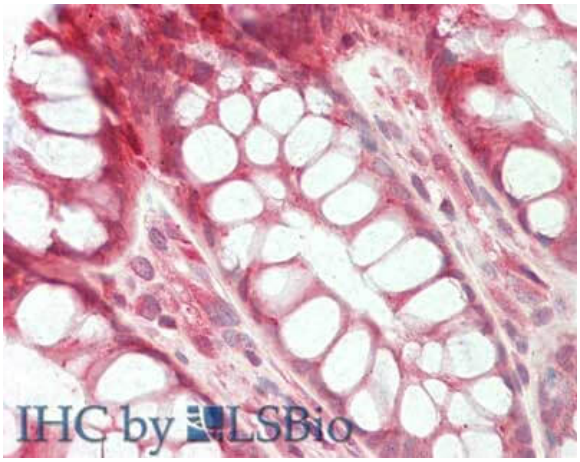
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

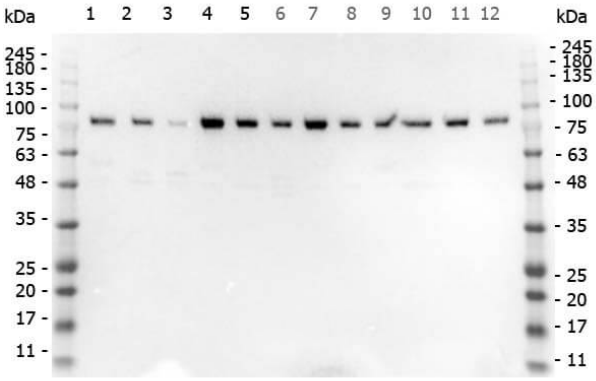
Images



Immunohistochemistry
Immunohistochemistry of Rabbit anti-GOK / STIM1 antibody. Tissue: Testis. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: GOK / STIM1 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: GOK / STIM1 as precipitated red signal with hematoxylin purple nuclear counterstain.



Immunohistochemistry
Immunohistochemistry of Rabbit anti-GOK / STIM1 antibody. Tissue: Colon. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: GOK / STIM1 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: GOK / STIM1 as precipitated red signal with hematoxylin purple nuclear counterstain.



Western Blot

Western Blot of Rabbit anti-STIM1 antibody. Marker: Opal Pre-stained ladder (p/n MB-210-0500). Lane 1: HEK293 lysate (p/n W09-000-365). Lane 2: HeLa Lysate (p/n W09-000-363). Lane 3: MCF-7 Lysate (p/n W09-000-360). Lane 4: Jurkat Lysate (p/n W09-000-370). Lane 5: A431 Lysate (p/n W09-000-361). Lane 6: A549 Lysate (p/n W09-001-372). Lane 7: LNCap Lysate (p/n W09-001-GJ9). Lane 8: MOLT-4 Lysate (p/n W09-001-GK2). Lane 9: Ramos Lysate (p/n W09-000-GK4). Lane 10: Raji Lsyate (p/n W09-001-368). Lane 11: A-172 Lysate (p/n W09-001-GL5). Lane 12: NIH/3T3 Lysate (p/n W10-000-358). Marker: Opal Pre-stained ladder (p/n MB-210-0500). Load: 35 µg per lane. Primary antibody: STIM1 antibody at 1ug/mL overnight at 4C. Secondary antibody: Peroxidase rabbit secondary antibody (p/n 611-103-122) at 1:30,000 for 60 min at RT. Blocking Buffer: 1% Casein-TTBS (p/n MB-082) for 30 min at RT. Predicted/Observed size: 77kDa for STIM1.

Disclaimer

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