

Datasheet: MCA3475Z

Description:	MOUSE ANTI HUMAN STIM1:Preservative Free
Specificity:	STIM1
Other names:	STROMAL INTERACTION MOLECULE 1
Format:	Preservative Free
Product Type:	Monoclonal Antibody
Clone:	5A2
Isotype:	IgG2a
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin (1)	■			0.1 - 10 ug/ml
Western Blotting	■			
Immunofluorescence	■			0.1 - 10 ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Species Cross Reactivity	Reacts with: Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Approx. Protein Concentrations	Ig concentration 0.5 mg/ml
Immunogen	Recombinant protein corresponding to aa 24-686 of human STIM1

**External Database
Links**

UniProt:

[Q13586](#) [Related reagents](#)

Entrez Gene:

[6786](#) STIM1 [Related reagents](#)

Synonyms

GOK

Fusion Partners

Spleen cells from immunized Balb/c mice were fused with cells from the Sp2/0 myeloma cell line.

Specificity

Mouse anti Human STIM1 antibody, clone 5A2 recognizes human Stromal interaction molecule 1, also known as STIM1. STIM1 is a 663 amino acid ~80 kDa single pass type I transmembrane glycoprotein involved in replenishment of depleted intracellular Ca²⁺.

Mutations in the STIM1 gene can lead to development of Immunodeficiency 10 ([IMD10](#)) characterized by recurrent infections and impaired T-cell responses ([Fuchs et al. 2012](#)) or of Myopathy, tubular aggregate, 1 ([TAM1](#)), a rare developmental myopathy with regular arrays of membrane tubules on muscle ([Böhm et al. 2013](#)).

References

1. Varga-Szabo, D. *et al.* (2008) The calcium sensor STIM1 is an essential mediator of arterial thrombosis and ischemic brain infarction. [J Exp Med. 205: 1583-91.](#)

Storage

Store at -20°C only.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10162 available at:
10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Human Anti Mouse IgG2a (HCA037...)	FITC , HRP

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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