

STIM1 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a full length recombinant STIM1.****Catalog # AT4075a****Specification**

STIM1 Antibody (monoclonal) (M01) - Product Information

Application	WB, IHC, IF, E
Primary Accession	Q13586
Other Accession	BC021300
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	77423

STIM1 Antibody (monoclonal) (M01) - Additional Information**Gene ID** 6786**Other Names**

Stromal interaction molecule 1, STIM1, GOK

Target/Specificity

STIM1 (AAH21300, 24 a.a. ~ 685 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

IHC~~1:100~500

IF~~1:50~200

E~~N/A

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

STIM1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

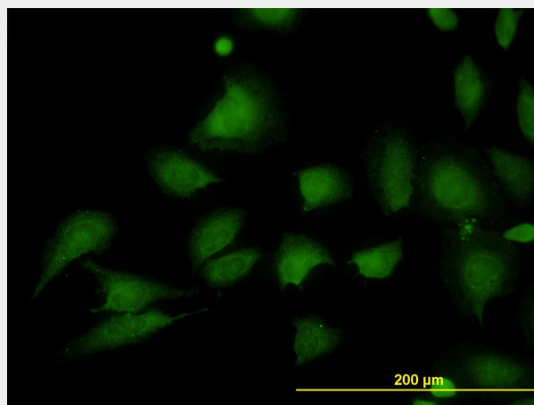
STIM1 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

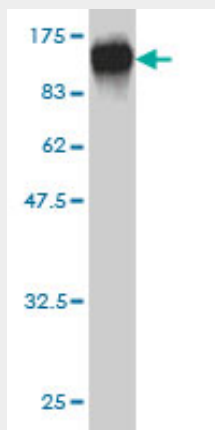
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

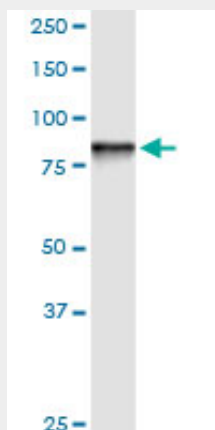
STIM1 Antibody (monoclonal) (M01) - Images



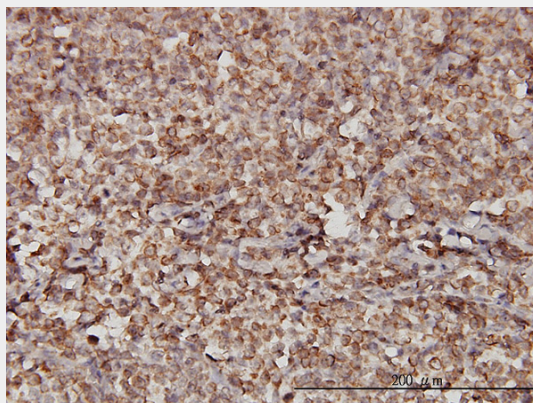
Immunofluorescence of monoclonal antibody to STIM1 on HeLa cell. [antibody concentration 10 ug/ml]



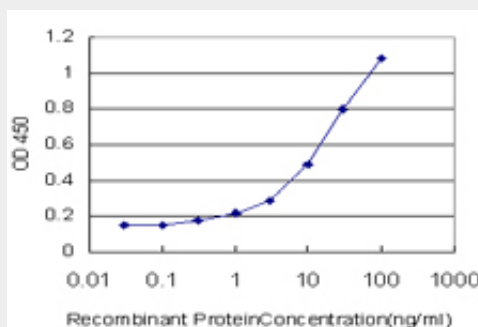
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (98.56 KDa) .



STIM1 monoclonal antibody (M01), clone 5A2. Western Blot analysis of STIM1 expression in human liver.



Immunoperoxidase of monoclonal antibody to STIM1 on formalin-fixed paraffin-embedded human malignant lymphoma, diffuse large B. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged STIM1 is approximately 0.3ng/ml as a capture antibody.

STIM1 Antibody (monoclonal) (M01) - Background

This gene encodes a type 1 transmembrane protein that mediates Ca^{2+} influx after depletion of intracellular Ca^{2+} stores by gating of store-operated Ca^{2+} 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, adrenocortical 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. 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.

STIM1 Antibody (monoclonal) (M01) - References

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STIM1 Antibody (monoclonal) (M01) - Citations

- [Selenoprotein K knockout mice exhibit deficient calcium flux in immune cells and impaired immune responses.](#)