

Anti-STIM2 (SHEEP) Antibody
STIM2 Antibody
Catalog # ASR5901**Specification**

Anti-STIM2 (SHEEP) Antibody - Product Information

Host	Sheep
Conjugate	Unconjugated
Target Species	Human
Reactivity	Human
Clonality	Polyclonal
Application	WB, IHC, E, I, LCI
Application Note	Anti-Stim II antibody is tested for ELISA and immunohistochemistry and suitable for Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~84kDa corresponding to the appropriate cell lysate or extract.
Physical State	Liquid (sterile filtered)
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Stim II affinity purified antibody was prepared from whole sheep serum produced by repeated immunizations with a synthetic peptide near the C-terminus of human Stim II.
Stabilizer	30% Glycerol

Anti-STIM2 (SHEEP) Antibody - Additional Information**Gene ID** 57620**Purity**

Anti-Stim II was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest cross-reactivity with mouse and human based on 100% sequence homology. Cross-reactivity with Stim II from other sources has not been determined.

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.

Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-STIM2 (SHEEP) Antibody - Protein Information

Name STIM2

Synonyms KIAA1482

Function

Plays a role in mediating store-operated Ca^{2+} entry (SOCE), a Ca^{2+} influx following depletion of intracellular Ca^{2+} stores. Functions as a highly sensitive Ca^{2+} sensor in the endoplasmic reticulum which activates both store-operated and store-independent Ca^{2+} -influx. Regulates basal cytosolic and endoplasmic reticulum Ca^{2+} concentrations. Upon mild variations of the endoplasmic reticulum Ca^{2+} concentration, translocates from the endoplasmic reticulum to the plasma membrane where it probably activates the Ca^{2+} release-activated Ca^{2+} (CRAC) channels ORAI1, ORAI2 and ORAI3. May inhibit STIM1-mediated Ca^{2+} influx.

Cellular Location

Endoplasmic reticulum membrane; Single-pass type I membrane protein. Note=Dynamically translocates from a uniform endoplasmic reticulum distribution to punctual endoplasmic reticulum-plasma membrane junctions in response to decrease in endoplasmic reticulum Ca^{2+} concentration

Tissue Location

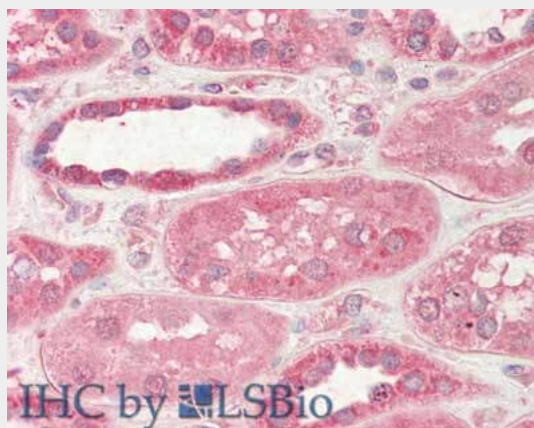
Expressed in all tissues and tumor cell lines examined.

Anti-STIM2 (SHEEP) Antibody - 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](#)

Anti-STIM2 (SHEEP) Antibody - Images



Immunohistochemistry of Sheep anti-STIM2 antibody. Tissue: Kidney. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: STIM2 antibody at 5 $\mu\text{g}/\text{mL}$ for 1 h at RT. Secondary antibody: Peroxidase sheep secondary antibody at 1:10,000 for 45 min at

RT. Staining: STIM2 as precipitated red signal with hematoxylin purple nuclear counterstain.

Anti-STIM2 (SHEEP) Antibody - Background

Stim II antibody functions as a calcium sensor in the endoplasmic reticulum via its EF-hand domain. After depletion of Ca^{+2} , it is thought to translocate from the endoplasmic reticulum to the plasma membrane to activate the calcium release-activated channel subunit. It may inhibit STIM1-mediated calcium influx. Anti-Stim II antibody is ideal for investigators interested in Signal Transduction research.