

Product datasheet for **AP33389PU-N**

Stromal interaction molecule 1 (STIM1) (N-term) Sheep Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA: 1/10000. Immunohistochemistry on Paraffin Sections: 5 µg/ml. Western Blot: 1 µg/ml.
Reactivity:	Human
Host:	Sheep
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	GOK / STIM1 antibody was raised against stim 1 affinity purified antibody was prepared from whole Sheep serum produced by repeated immunizations with a synthetic peptide near the N-terminus of Human Stim 1.
Specificity:	Recognizes GOK / STIM1 at N-terminus
Formulation:	0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2, 50% Glycerol State: Aff - Purified State: Liquid (sterile filtered) purified Ig fraction
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	stromal interaction molecule 1
Database Link:	Entrez Gene 6786 Human Q13586



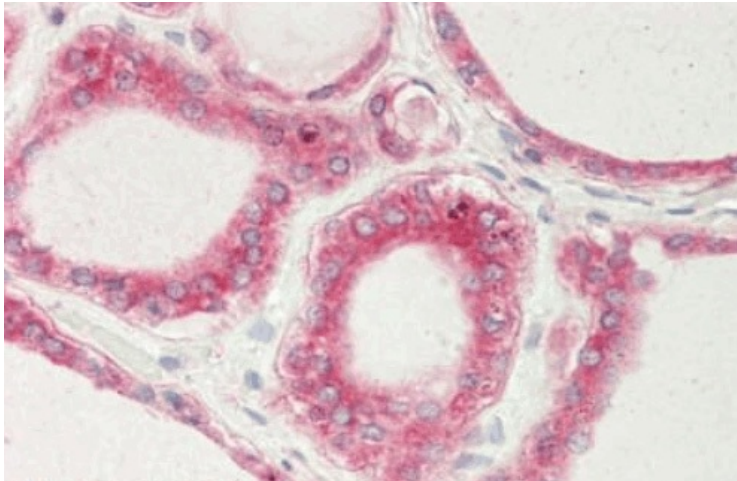
[View online »](#)

Background:

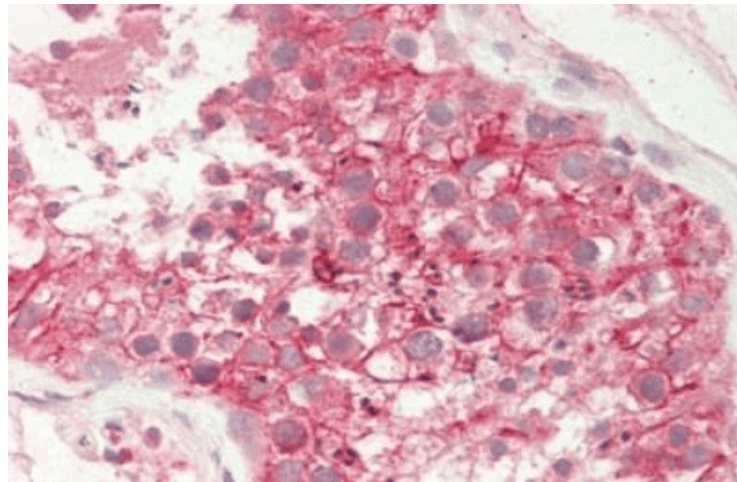
In T lymphocytes, the sole pathway for Ca^{++} entry following antigen-receptor binding is through store-operated Ca^{++} -release-activated Ca^{++} (CRAC) channels. These channels are made up of the pore-forming subunit ORAI1 and the stromal interaction molecule 1 (STIM1), a protein that functions as a Ca^{++} sensor and activates the CRAC channels, migrating to the plasma membrane from endoplasmic reticulum (ER)-like sites which act as the Ca^{++} store. A related molecule, STIM2, acts to inhibit the STIM1-mediated store-operated Ca^{++} entry, and can form complexes with STIM1, suggesting they may play a coordinated role in controlling Ca^{++} entry. At least two isoforms of STIM1 are known to exist.

Synonyms:

Stromal interaction molecule 1

Product images:

Human Thyroid: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Testis: Formalin-Fixed, Paraffin-Embedded (FFPE)