

**STIM2 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP54992**

**Specification**

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**STIM2 Polyclonal Antibody - Product Information**

Application	IHC-P
Primary Accession	<a href="#">Q9P246</a>
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	83971

**STIM2 Polyclonal Antibody - Additional Information**

**Gene ID** 57620

**Other Names**

Stromal interaction molecule 2, STIM2, KIAA1482

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**STIM2 Polyclonal Antibody - Protein Information**

**Name** STIM2

**Synonyms** KIAA1482

**Function**

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

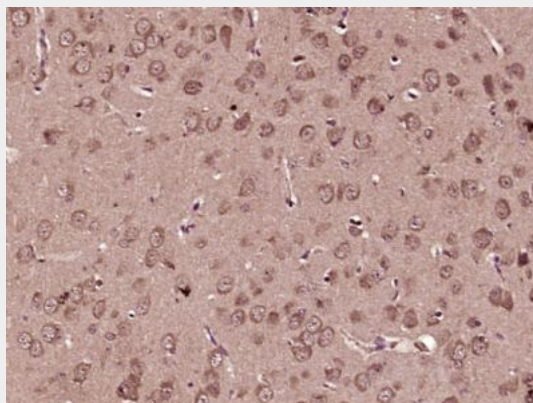
**Tissue Location**

Expressed in all tissues and tumor cell lines examined.

**STIM2 Polyclonal 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](#)

**STIM2 Polyclonal Antibody - Images**

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (STIM2) Polyclonal Antibody, Unconjugated (bs-12826R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.