

## Product datasheet for **TA385346M**

### Stromal interaction molecule 1 (STIM1) Rabbit Monoclonal Antibody [Clone ID: R07-9F9]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	R07-9F9
Applications:	WB
Recommended Dilution:	WB: 1/1000-1/5000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide of human Stromal interaction molecule 1
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 77 kDa; Observed MW: 77 kDa
Gene Name:	stromal interaction molecule 1
Database Link:	<a href="#">Entrez Gene 6786 Human Q13586</a>

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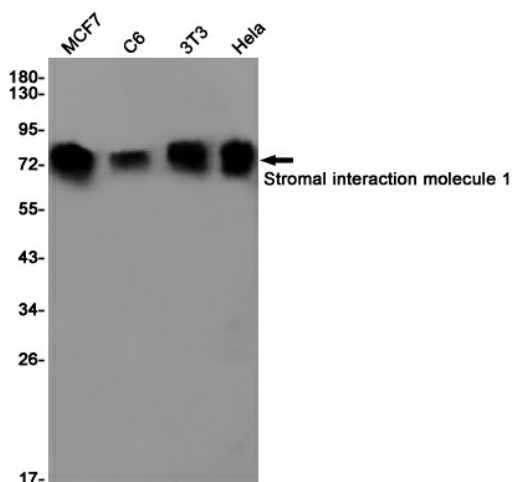
**Background:**

Swiss-Prot Acc.Q13586. 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 (PubMed:15866891, PubMed:16005298, PubMed:16208375, PubMed:16537481, PubMed:16733527, PubMed:16766533, PubMed:16807233, PubMed:18854159, PubMed:19249086, PubMed:22464749, PubMed:24069340, PubMed:24351972, PubMed:24591628, PubMed:26322679, PubMed:25326555, PubMed:28219928). Acts as  $\text{Ca}^{2+}$  sensor in the endoplasmic reticulum via its EF-hand domain. Upon  $\text{Ca}^{2+}$  depletion, translocates from the endoplasmic reticulum to the plasma membrane where it activates the  $\text{Ca}^{2+}$  release-activated  $\text{Ca}^{2+}$  (CRAC) channel subunit ORAI1 (PubMed:16208375, PubMed:16537481). Involved in enamel formation (PubMed:24621671). Activated following interaction with STIMATE, leading to promote STIM1 conformational switch (PubMed:26322679).

**Synonyms:**

D11S4896E; GOK

**Product images:**



Western blot analysis of Stromal interaction molecule 1 in MCF-7, C6, 3T3, HeLa lysates using Stromal Interaction Molecule 1 antibody.