

## STIM1

**Reactivity:** Human

**Tested applications:** WB

**Recommended Dilution:** WB 1:200 - 1:2000

**Calculated MW:** 77kDa

**Observed MW:** Refer to figures

**Immunogen:**

Recombinant protein of human STIM1

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonym:**

GOK; TAM; TAM1; IMD10; STRMK; D11S4896E;

**Catalog #:** A7411

**Antibody Type:**

Polyclonal Antibody

**Species:** Rabbit

**Gene ID:** 6786

**Isotype:** IgG

**Swiss Prot:** Q13586

**Purity:** Affinity purification

For research use only.

**Background:**

This gene encodes a type 1 transmembrane protein that mediates Ca<sup>2+</sup> influx after depletion of intracellular Ca<sup>2+</sup> stores by gating of store-operated Ca<sup>2+</sup> 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. Mutations in this gene are associated with fatal classic Kaposi sarcoma, immunodeficiency due to defects in store-operated calcium entry (SOCE) in fibroblasts, ectodermal dysplasia and tubular aggregate myopathy. 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. Alternative splicing of this gene results in multiple transcript variants.

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