

## Human STIM1 Knockdown Cell Lysate

Cat. No. STIM1-302HKCL Lot. No. (See product label)

### SPECIFICATION

**Product Overview** WB-validated STIM1 Knockdown HeLa Cell Lysate

**Species** Human

**Source** HeLa

**Description**

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.

**Form** Cell-Tissue Lysis buffer

**Molecular Mass** 77 kDa

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<b>Notes</b>	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
<b>Storage</b>	Store at -20 centigrade for two years.
<b>Concentration</b>	Lot-specific
<b>Shipping</b>	Blue Ice
<b>Components</b>	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg STIM1 KD HeLa cell lysate
<b>Protein Families</b>	Transmembrane
<b>Lysate QC</b>	RT-qPCR; Western Blotting (WB)

## GENE INFORMATION

<b>Gene Name</b>	STIM1 stromal interaction molecule 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	STIM1
<b>Synonyms</b>	STIM1; stromal interaction molecule 1; D11S4896E; GOK; STIM1L;
<b>Gene ID</b>	6786
<b>mRNA Refseq</b>	NM_003156
<b>Protein Refseq</b>	NP_003147

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<b>MIM</b>	605921
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<b>UniProt ID</b>	Q13586
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