

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 Ca²⁺ influx after depletion of intracellular Ca²⁺ stores by gating of store-operated Ca²⁺ 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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Notes	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.
Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg STIM1 KD HeLa cell lysate
Protein Families	Transmembrane
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

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

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MIM	605921
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UniProt ID	Q13586
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