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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

STIM1 (Human) Recombinant Protein (P01)

Catalog Number: H00006786-P01

Regulation Status: For research use only (RUO)

Product Description: Human STIM1 full-length ORF (AAH21300, 24 a.a. - 685 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

SHSHSEKATGTSSGANSEESTAAEFCRIDKPLCHSED
EKLSFEAVRNIHKLMDDDANGDVDVEESDEFRLDLN
YHDPTVKHSTFHGEDKLISVEDLWKAWKSSEVYNWTV
DEVVQWLITYVELPQYEETFRKLQLSGHAMPRLAVTN
TTMTGAVLKMTDRSHRQKLQKALDVTFLFGPPLLTRH
NHLKDFMLVVSIVIGVGGCWFAYIQNRYSCHEMCKMM
KDLEGLHRAEQSLHDLQERLHKAQEEHRTVEVEKVHL
EKCLRDEINLAKQEAQRLKELREGTENERSRQKYAEE
ELEQVREALRKAKEKLESHSSWYAPEALQKWLQLTHE
VEVQYNIKKQNAEKQLLVAKEGAEKIKKKRNTLFGTF
HVAHSSSLDDVDHKILTAKQALSEVTAALRERLHRWQ
QIEILCGFQIVNNGIHSVAALNIDPSWGMSTRPNPAH
FIMTDDVDDMDEEIVSPLSMQSPSLQSSVRQRLTEPQ
HGLGSQRDLTHSDSESSLHMSDRQRVAPKPPQMSRA
ADEALNAMTSNGSHRLIEGVHPGSLVEKLPDSPALAK
KALLALNHGLDKAHSMLSPSAPPGGSPHLDSSRSH
SPSSPDPDTPSPVGDSTRALQASRNTRIPHLAGKKAVA
EEDNGSIGEETDSSPGRKKFPLKIFKKPLKK

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 98.56

Applications: AP, Array, ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Preparation Method: [in vitro wheat germ expression system](#)

Purification: Glutathione Sepharose 4 Fast Flow

Storage Buffer: 50 mM Tris-HCl, 10 mM reduced

Glutathione, pH=8.0 in the elution buffer.

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 6786

Gene Symbol: STIM1

Gene Alias: D11S4896E, GOK

Gene Summary: 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. 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]

References:

1. S-glutathionylation activates STIM1 and alters mitochondrial homeostasis. Hawkins BJ, Irrinki KM, Mallilankaraman K, Lien YC, Wang Y, Bhanumathy CD, Subbiah R, Ritchie MF, Soboloff J, Baba Y, Kurosaki T, Joseph SK, Gill DL, Madesh M. J Cell Biol. 2010 Aug 9;190(3):391-405. Epub 2010 Aug 2.