

Datasheet for ABIN7564556
SIK2 Protein (AA 1-931) (His tag)



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Overview

Quantity:	1 mg
Target:	SIK2
Protein Characteristics:	AA 1-931
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SIK2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Sik2 Protein expressed in mammalien cells.
Sequence:	<p>MVMADGPRHL QRGPRVVGfy DIEGLGKGN FAVVKLGRHR TTKTEVAIKI IDKSQLDVAVN</p> <p>LEKIYREVQI MKMLDHPHII KLYQVMETKS MLYLVTEYAK NGEIFDYLAN HGRLNESEAR</p> <p>RKFWQILSAV DYCHGRKVVH RDLKAENLLL DNNMNIKIAD FGFGNFFKTG ELLATWCGSP</p> <p>PYAAPEVFEG QQYEGPQLDI WSMGVVLYVL VCGALPFDGP TLPILRQRLV EGRFRIPYFM</p> <p>SEDCEHLIRR MLVLDPSKRL SIAQIKEHKW MLIEVPVQRP ILYPQEQENE PSIGEFNEQV</p> <p>LRLMHSLGID QQKTVESLQN KSYNHFAAIY FLLVERLKSH RSSFPVEQRL DGRQRRPSTI</p> <p>AEQTVAKAQT VGLPVTLHPP NVRLMRSTLL PQASNVEAFS FPTSSCQAEA AFMEEECVDT</p> <p>PKVNGCLLDP VPPVLVRKGC QSLPSSMMET SIDEGLETEG EAEEDPSQAF EAFQATRSGQ</p> <p>RRHTLSEVTN QLVVMPGAGK MFSMSDNP SL ESVDSEYDMG SAQRDLNFLE DSPSLKDIML</p> <p>ANQPSPRMTS PFISLRPANP AMQALSSQKR EAHNRSPVSF REGRRASDTS LTQGIVAFRQ</p> <p>HLQNLARTKG ILELNKVQLL YEQMGSNADP TLTSTAPQLQ DLSSSCPQEE ISQQQESVSS</p>

LSASMHPQLS PQQSLETQYL QHRLQKPNLL PKAQSPCPVY CKEPPRSLEQ QLQEHRLQKQ
RLFLQKQSQL QAYFNQMQIA ESSYPGPSQQ LALPHQETPL TSQQPPSFSL TQALSPVLEP
SSEQMQFSSF LSQYPEMLQ PLPSTPGPRA PPPLPSQLQQ HQQPPPPPPP PPPQQPGAAP
TSLQFSYQTC ELPSTTSSVP NYPASCHYPV DGAQQSNLTG ADCPRSSGLQ DTASSYDPLA
LSELPGLFDC EMVEAVDPQH NGVVSCLARE T

Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	SIK2
Alternative Name:	Sik2 (SIK2 Products)
Background:	Serine/threonine-protein kinase SIK2 (EC 2.7.11.1) (Salt-inducible kinase 2) (SIK-2) (Serine/threonine-protein kinase SNF1-like kinase 2),FUNCTION: Serine/threonine-protein kinase that plays a role in many biological processes such as fatty acid oxidation, autophagy, immune response or glucose metabolism (PubMed:12624099, PubMed:16817901, PubMed:29211348). Phosphorylates 'Ser-794' of IRS1 in insulin-stimulated adipocytes,

Target Details

potentially modulating the efficiency of insulin signal transduction (PubMed:12624099). Inhibits CREB activity by phosphorylating and repressing TORCs, the CREB-specific coactivators (PubMed:16817901). Phosphorylates EP300 and thus inhibits its histone acetyltransferase activity. In turn, regulates the DNA-binding ability of several transcription factors such as PPARA or MLXIPL (By similarity). Also plays a role in thymic T-cell development (PubMed:34732767). {ECO:0000250|UniProtKB:Q9H0K1, ECO:0000269|PubMed:12624099, ECO:0000269|PubMed:16817901, ECO:0000269|PubMed:29211348, ECO:0000269|PubMed:34732767}.

Molecular Weight: 104.2 kDa

UniProt: [Q8CFH6](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months