

Product datasheet for TP506839

Sgk3 (BC018363) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse serum/glucocorticoid regulated kinase 3 (cDNA clone MGC:19373 IMAGE:2631682), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR206839 protein sequence Red=Cloning site Green=Tags(s)

MALKIPAKRIFGDNFDPDFIKQRRAGLNEFIQNLVRYPELYNHPDVRAFLQMDSPRHQSDPSEDEDERST
SKPHSTSRNINLGPTGNPHAKPTDFDFLKVIGKGSFGKVLLAKRKLKGKDYAVKVLQKKIVLNRKEQKHI
MAERNVLLKNVKHPFLVGLHYSFQTTEKLYFVLDVNGGELFFHLQRRERSFPEPRARFYAAEIASALGYL
HSIKIVYRDLKPENILLDSMGHVLTDFGLCKEGIAISDTTTCGTPEYLAPEVIRKQPYDNTVDWWCL
GAVLYEMLYGLPPFYCRDVAEMYDNILHKPLNLRPGVSLTAWSSILEELLEKNRQNRGAKEDFLEIQNHP
FFESLSWTDLVQKKIPPPFNPNVAGPDDIRNFDAVFTEETVPYSVCVSSDYSIVNASVLEADDAFVGFSY
APPSIDLFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	91.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Locus ID:	170755



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UniProt ID:	Q9ERE3
RefSeq Size:	2494
Cytogenetics:	1 2.08 cM
RefSeq ORF:	1287
Synonyms:	2510015P22Rik; A330005P07Rik; Cisk; fy; fz
Summary:	<p>Serine/threonine-protein kinase which is involved in the regulation of a wide variety of ion channels, membrane transporters, cell growth, proliferation, survival and migration. Up-regulates Na(+) channels: SCNN1A/ENAC and SCN5A, K(+) channels: KCNA3/KV1.3, KCNE1, KCNQ1 and KCNH2/HERG, epithelial Ca(2+) channels: TRPV5 and TRPV6, chloride channel: BSND, creatine transporter: SLC6A8, Na(+)/dicarboxylate cotransporter: SLC13A2/NADC1, Na(+)-dependent phosphate cotransporter: SLC34A2/NAPI-2B, amino acid transporters: SLC1A5/ASCT2 and SLC6A19, glutamate transporters: SLC1A3/EAAT1, SLC1A6/EAAT4 and SLC1A7/EAAT5, glutamate receptors: GRIA1/GLUR1 and GRIK2/GLUR6, Na(+)/H(+) exchanger: SLC9A3/NHE3, and the Na(+)/K(+) ATPase. Plays a role in the regulation of renal tubular phosphate transport and bone density. Phosphorylates NEDD4L and GSK3B. Positively regulates ER transcription activity through phosphorylation of FLII. Negatively regulates the function of ITCH/AIP4 via its phosphorylation and thereby prevents CXCR4 from being efficiently sorted to lysosomes.[UniProtKB/Swiss-Prot Function]</p>