

Datasheet for ABIN7564016 BRSK2 Protein (AA 1-735) (His tag)



Overview

Quantity:	1 mg
Target:	BRSK2
Protein Characteristics:	AA 1-735
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BRSK2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Brsk2 Protein expressed in mammalien cells.
Sequence:	MTSTGKDGGG AQHAQYVGPY RLEKTLGKGQ TGLVKLGIHC VTCQKVAIKI VNREKLSESV
	LMKVEREIAI LKLIEHPHVL KLHDVYENKK YLYLVLEHVS GGELFDYLVK KGRLTPKEAR
	KFFRQIISAL DFCHSHSICH RDLKPENLLL DERNNIRIAD FGMASLQVGD SLLETSCGSP
	HYACPEVIRG EKYDGRKADV WSCGVILFAL LVGALPFDDD NLRQLLEKVK RGVFHMPHFI
	PPDCQSLLRG MIEVDAARRL TLEHIQKHIW YIGGKNEPEP EQPIPRKVQI RSLPSLEDID
	PDVLDSMHSL GCFRDRNKLL QDLLSEEENQ EKMIYFLLLD RKERYPSHED EDLPPRNEID
	PPRKRVDSPM LNRHGKRRPE RKSMEVLSVT DGGSPVPARR AIEMAQHGQR SRSISGASSG
	LSTSPLSSPR VTPHPSPRGS PLPTPKGTPV HTPKESPAGT PNPTPPSSPS VGGVPWRTRL
	NSIKNSFLGS PRFHRRKLQV PTPEEMSNLT PESSPELAKK SWFGNFINLE KEEQIFVVIK
	DKPLSSIKAD IVHAFLSIPS LSHSVISQTS FRAEYKATGG PAVFQKPVKF QVDITYTEGG
	EAQKENGIYS VTFTLLSGPS RRFKRVVETI QAQLLSTHDQ PSAQHLSDTT NCMEVMTGRL

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	SKCGTPLSNF FDVIKQLFSD EKNGQAAQAP STPAKRSAHG PLGDSAAAGP GGDTEYPMGK
	DMAKMGPPAA RREQP 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:	Key Benefits:
	 Made to order protein - from design to production - by highly experienced protein experts. Protein expressed in mammalien 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).
	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.
	If you are not interested in a full length protein, please contact us for individual protein fragments.
	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.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	BRSK2
Alternative Name:	Brsk2 (BRSK2 Products)
Background:	Serine/threonine-protein kinase BRSK2 (EC 2.7.11.1) (EC 2.7.11.26) (Brain-specific
	serine/threonine-protein kinase 2) (BR serine/threonine-protein kinase 2) (Serine/threonine-
	protein kinase SAD-A),FUNCTION: Serine/threonine-protein kinase that plays a key role in
	polarization of neurons and axonogenesis, cell cycle progress and insulin secretion.
	Phosphorylates CDK16, CDC25C, MAPT/TAU, PAK1 and WEE1. Following phosphorylation and
	activation by STK11/LKB1, acts as a key regulator of polarization of cortical neurons, probably
	by mediating phosphorylation of microtubule-associated proteins such as MAPT/TAU at 'Thr-
	504' and 'Ser-554'. Also regulates neuron polarization by mediating phosphorylation of WEE1 at
	'Ser-642' in post-mitotic neurons, leading to down-regulate WEE1 activity in polarized neurons.

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	Plays a role in the regulation of the mitotic cell cycle progress and the onset of mitosis. Plays a role in the regulation of insulin secretion in response to elevated glucose levels, probably via phosphorylation of CDK16 and PAK1. While BRSK2 phosphorylated at Thr-175 can inhibit insulin secretion (PubMed:22798068), BRSK2 phosphorylated at Thr-261 can promote insulin secretion (PubMed:22669945). Regulates reorganization of the actin cytoskeleton. May play a role in the apoptotic response triggered by endoplasmic reticulum (ER) stress.
	{EC0:0000269 PubMed:15705853, EC0:0000269 PubMed:17482548,
	ECO:0000269 PubMed:20026642, ECO:0000269 PubMed:22669945,
	ECO:0000269 PubMed:22798068}.
Molecular Weight:	81.7 kDa
UniProt:	Q69Z98
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

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