

Product datasheet for PH323466

BRSK2 (NM_003957) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards **Description:** BRSK2 MS Standard C13 and N15-labeled recombinant protein (NP_003948) Species: Human **HEK293 Expression Host:** RC223466 **Expression cDNA Clone** or AA Sequence: Predicted MW: 74.6 kDa >RC223466 representing NM_003957 **Protein Sequence:** Red=Cloning site Green=Tags(s) MTSTGKDGGAQHAQYVGPYRLEKTLGKGQTGLVKLGVHCVTCQKVAIKIVNREKLSESVLMKVEREIAIL KLIEHPHVLKLHDVYENKKYLYLVLEHVSGGELFDYLVKKGRLTPKEARKFFRQIISALDFCHSHSICHR DLKPENLLLDEKNNIRIADFGMASLQVGDSLLETSCGSPHYACPEVIRGEKYDGRKADVWSCGVILFALL VGALPFDDDNLRQLLEKVKRGVFHMPHFIPPDCQSLLRGMIEVDAARRLTLEHIQKHIWYIGGKNEPEPE QPIPRKVQIRSLPSLEDIDPDVLDSMHSLGCFRDRNKLLQDLLSEEENQEKMIYFLLLDRKERYPSQEDE DLPPRNEIDPPRKRVDSPMLNRHGKRRPERKSMEVLSVTDGGSPVPARRAIEMAQHGQRSRSISGASSGL STSPLSSPRVTPHPSPRGSPLPTPKGTPVHTPKESPAGTPNPTPPSSPSVGGVPWRARLNSIKNSFLGSP RFHRRKLQVPTPEEMSNLTPESSPELAKKSWFGNFISLEKEEQIFVVIKDKPLSSIKADIVHAFLSIPSL SHSVISQTSFRAEYKATGGPAVFQKPVKFQVDITYTEGGEAQKENGIYSVTFTLLSGPSRRFKRVVETIQ AQLLSTHDPPAAQHLSDTTNCMEMMTGRLSKCGIIPKS TRTRPLEQKLISEEDLAANDILDYKDDDDKV C-Myc/DDK Tag: **Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining **Concentration:** >0.05 µg/µL as determined by microplate BCA method Labeling Method: Labeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-Lysine **Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3 Storage: Store at -80°C. Avoid repeated freeze-thaw cycles. Stability: Stable for 3 months from receipt of products under proper storage and handling conditions. **RefSeq:** NP 003948 **RefSeq Size:** 3516



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	2 (NM_003957) Human Mass Spec Standard – PH323466	
RefSeq ORF:	2004	
Synonyms:	C11orf7; PEN11B; SAD1; SADA; STK29	
Locus ID:	9024	
UniProt ID:	<u>Q8IWQ3, A0A140VJF6</u>	
Cytogenetics:	11p15.5	
Summary:	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-529' and 'Ser-579'. Also regulates neuron polarization by mediating phosphorylation of WEE1 at 'Ser-642' in postmitotic neurons, leading to down-regulate WEE1 activity in polarized neurons. 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-174 can inhibit insulin secretion (PubMed:22798068), BRSK2 phosphorylated at Thr-260 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. [UniProtKB/Swiss-Prot Function]	
Protein Families	: Druggable Genome, Protein Kinase	

Protein Families:

Product images:

188	_	
98	-	
62	_	-
49	-	
38	_	
28	_	
17	_	
14		
63	=	

Coomassie blue staining of purified BRSK2 protein (Cat# [TP323466]). The protein was produced from HEK293T cells transfected with BRSK2 cDNA clone (Cat# [RC223466]) using MegaTran 2.0 (Cat# [TT210002]).

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