

Product datasheet for TP525284

Pkn2 (NM_178654) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse protein kinase N2 (Pkn2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR225284 representing NM_178654 Red=Cloning site Green=Tags(s)

MASNPDRGEILLTELQGDSRTLPFSENVSAVQKLDIFSMTMVQQKLDIDKRIKREIRKELKIKEGAENLR
KVTTDKKNLAYVDNLIKSNKKLEELHHLQELNAHIVSDPEDSTDCPRTPTDTPNSDSRSSTSNNRLMA
LQKQLDIELKVKQGAENMIQMYNSGSSKDRKLHGTAQQLLQDSKTKIEVIRMQILQAVQTNELAFDNAKP
VISPLELRMEELRHHFKIEFAVAEGAKNVMKLLGSGKVTDRKALSEAQARFNESSQKLDLLKYSLEQRLN
ELPRNHPKSSVIEELSLVASPTLSPRQSMLSTQNQYSTLSKPAALTGTLEVRLMGCQDILENVPGRSKA
TSVALPGWSPSDNRSSFMSRTSKSKSGSSRNLLKTDDLSNDVCAVLKLDNTVVGQTSWKPISNQSWDQKF
TLELDRSRELEISVYWRDWRSLCAVKFLRLEDFLDNQRHGMCLYLEPQGTLFAEVTFNPNVIERPKLQR
QKKIFSKQQGKTFLRAPQMNINIATWGRLVRRAIPTVNHSGTFSPQTPVPATVPVVDARIPDLAPPASDS
TVTKLDFDLEPEPPPAPPRASSLGETDESSELRLVDIPGQGSETVFNIEENRNLNRPKSKSEYELSIPDS
GRSCWVGELDDKRAQRQFQSLQDFRCCAVALGRGHFGKVLAEYKHTNEMFAIKALKKGDIVARDEVDS
LMCEKRIFETVNSVRHPFLVNLFACFQTKHEHVCVMEYAAGGDLMMHIHTDVFSEPRAVFYAACVVLGLQ
YLHEHKIVYRDLKLDNLLLDTEGFVKIADFGLCKEGMGYGDRTSTFCGTPEFLAPEVLTETSYTRAVDWW
GLGVLIYEMLVGESPFPGDDEEEVFDSIVNDEVRYPRFLSTEAISIMRLLRRNPERRLGAGEKDAEDVK
KHPFFRLTDWSALMDKKVKPPFVPTIRGREDVSNFDEFTSEAPILTPPREPRILLEEEQEMFHDFDYVA
DWC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	112.1 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



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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.
RefSeq:	NP_848769
Locus ID:	109333
UniProt ID:	Q8BWW9
RefSeq Size:	6207
Cytogenetics:	3 66.69 cM
RefSeq ORF:	2949
Synonyms:	6030436C20Rik; AI507382; PRK2; Prkcl2; Stk7
Summary:	<p>PKC-related serine/threonine-protein kinase and Rho/Rac effector protein that participates in specific signal transduction responses in the cell. Plays a role in the regulation of cell cycle progression, actin cytoskeleton assembly, cell migration, cell adhesion, tumor cell invasion and transcription activation signaling processes. Phosphorylates CTTN in hyaluronan-induced astrocytes and hence decreases CTTN ability to associate with filamentous actin. Phosphorylates HDAC5, therefore lead to impair HDAC5 import. Direct RhoA target required for the regulation of the maturation of primordial junctions into apical junction formation in bronchial epithelial cells. Required for G2/M phases of the cell cycle progression and abscission during cytokinesis in a ECT2-dependent manner. Stimulates FYN kinase activity that is required for establishment of skin cell-cell adhesion during keratinocytes differentiation. Regulates epithelial bladder cells speed and direction of movement during cell migration and tumor cell invasion. Inhibits Akt pro-survival-induced kinase activity. Mediates Rho protein-induced transcriptional activation via the c-fos serum response factor (SRF). Involved in the negative regulation of ciliogenesis (By similarity).[UniProtKB/Swiss-Prot Function]</p>