

## Product datasheet for **TP305379L**

### PKC iota (PRKCI) (NM\_002740) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protein kinase C, iota (PRKCI), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC205379 protein sequence
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MSHTVAGGGSGDHS HQVRVKAYYRGDIMITHFEPSISFEGLCNEVRDMCSFDNEQLFTMKWIDEEGDPCT  
VSSQLELEEAFLRYELNKDSELLIHVFPCVPERPGMPCPGEDKSIYRRGARRWRKLYCANGHTFQAKRFN  
RRAHCAICTDRIWGLGRQGYKCINCKLLVHKKCHKLVTIECGRHSLPQEPVMPMDQSSMHS DHAQTVIPY  
NPSSHESLDQVGEEKEAMNTRESGKASSLGLQDFDLLRVIGRGSYAKVLLVRLKKTDRIAMKVVKEL  
VNDDEDIDWVQTEKHVFEQASNH PFLVGLHSCFQTESR LFFVIEYVNGGDLMFHMQRQRKLPEEHARFYS  
AEISLALNYLHERGIIYRDLKLDNVLLDSEGH IKLTDYGMCKEGLRPGDTTSTFCGTPNYIAPEILRGED  
YGFSDVWWALGVL MFEMMAGRSPFDIVGSSDNP DQNTEDYLFQVILEKQIRIPRSM SVKAASVLKSFLNK  
DPKERLGLPQTGFADIQGH PFFRNVDWDMMEQKQV VPPFKPNISGEFGLDNFDSQFTNERVQLTPDDDD  
IVRKIDQSEFEGFEYINPLLSAE ECV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

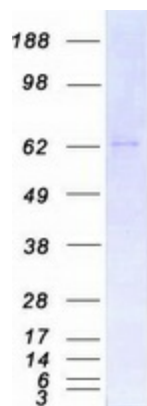
Tag:	C-Myc/DDK
Predicted MW:	68.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_002731</a>
<b>Locus ID:</b>	5584
<b>UniProt ID:</b>	<a href="#">P41743</a>
<b>RefSeq Size:</b>	4884
<b>Cytogenetics:</b>	3q26.2
<b>RefSeq ORF:</b>	1761
<b>Synonyms:</b>	DXS1179E; nPKC-iota; PKCI
<b>Summary:</b>	This gene encodes a member of the protein kinase C (PKC) family of serine/threonine protein kinases. The PKC family comprises at least eight members, which are differentially expressed and are involved in a wide variety of cellular processes. This protein kinase is calcium-independent and phospholipid-dependent. It is not activated by phorbol esters or diacylglycerol. This kinase can be recruited to vesicle tubular clusters (VTCs) by direct interaction with the small GTPase RAB2, where this kinase phosphorylates glyceraldehyde-3-phosphate dehydrogenase (GAPD/GAPDH) and plays a role in microtubule dynamics in the early secretory pathway. This kinase is found to be necessary for BCL-ABL-mediated resistance to drug-induced apoptosis and therefore protects leukemia cells against drug-induced apoptosis. There is a single exon pseudogene mapped on chromosome X. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Endocytosis, Insulin signaling pathway, Tight junction

### Product images:



Coomassie blue staining of purified PRKCI protein (Cat# [TP305379]). The protein was produced from HEK293T cells transfected with PRKCI cDNA clone (Cat# [RC205379]) using MegaTran 2.0 (Cat# [TT210002]).