

## Product datasheet for **TP305379M**

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

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protein kinase C, iota (PRKCI), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC205379 protein sequence <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)  MSHTVAGGGSGDHS HQVRVKAYYRGDIMITHFEPSISFEGLCNEVRDMCSFDNEQLFTMKWIDEEGDPC T VSSQLEEEAFRLYELNKDSELLIHVFCVPERPGMPCPGEDKSIYRRGARRWRKLYCANGHTFQAKRFN RRAHCAICTDRIWGLGRQGYKCINCKLLVHKKCHKLVITIECGRHSLPQEPVMPMDQSSMHS DHAQTVIP Y NPSSHESLDQVGEEKEAMNTRESGKASSSLGLQDFDLLRVIGRGSYAKVLLVRLKKTDR IYAMKWVKEL VNDDEDIDWVQTEKHVFEQASNHPFLVGLHSCFQTESRLLFFVIEYVNGGDLMFHMQRQRKLPEEHARFY S AEISLALNYLHERGIIYRDLKLDNVLLDSEGHILTDYGMCKEGLRPGDTTSTFCGTPNYIAPEILRGED YGFSVDWWALGVLMFEMMAGRSPFDIVGSSDNPDQNTEDYLFQVILEKQIRIPRSM SVKAASVLKSFLNK DPKERLGLPQTGFADIQGHPPFRNVDWDMMEQKQVPPFKPNISGEFGLDNFDSQFTNERVQLTPDD DD IVRKIDQSEFEGFEYINPLLMSAEECV  <span style="color: red;">TR</span> <span style="color: green;">TRPLEQKLISEEDLAANDILDYKDDDDKV</span>
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.


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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.

**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\\_002731](#)

**Locus ID:** 5584

**UniProt ID:** [P41743](#)

**RefSeq Size:** 4884

**Cytogenetics:** 3q26.2

**RefSeq ORF:** 1761

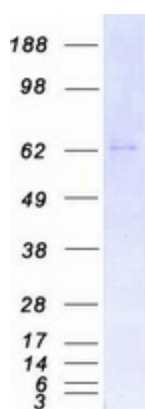
**Synonyms:** DXS1179E; nPKC-iota; PKCI

**Summary:** 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]

**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** 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]).