

PRKCI

Recombinant Human PRKCI/PKC iota Active GST-His

Catalog No.	CSI12243	Quantity:	50 µg
Alternate Names:	DXS1179E, PKCI, nPKC-iota, PRKC-lambda/iota, aPKC-lambda/iota, atypical protein kinase C-lambda/iota, protein kinase C iota type		
Description:	Human PKC-iota, Amino acids M ₁ -V ₅₈₇ (as in GenBank entry NM_002740)*, N-terminally fused to GST-HIS ₆ -Thrombin cleavage site *Sequence may contain documented polymorphisms Detailed sequence on request		
Concentration:	0.369 µg/µl		
Gene ID:	5584		
Protein Accession No:	NM_002740		
Source:	Baculovirus infected Sf9 cells		
Molecular Weight:	Theoretical MW _{Fusion Protein} : 98,027 Da		
Formulation:	50 mM Tris-HCl, pH 8.0 + 100 mM NaCl + 5 mM DTT + 15 mM reduced glutathione, 20% glycerol		
Purification:	One-step affinity purification using GSH-agarose		
Product Identity:	PKC-iota was confirmed as PKC-iota by specific Western Blotting using anti PKC-iota antibody		
Specific Activity:	106 pmol/µg×min		

Method for determination of Km value and specific activity:

- Assay conditions:
 - 60 mM HEPES-NaOH, pH 7.5
 - 3 mM MgCl₂
 - 3 mM MnCl₂
 - 1 mM CaCl₂
 - 4 mM EDTA
 - 3 µM Na-orthovanadate
 - 5 µg / ml Phosphatidylserine
 - 1 µg / ml 1,2 Dioleoyl-glycerol
 - 1.2 mM DTT
 - 50 µg / ml PEG_{20,000}
 - ATP (variable)
 - Substrate: PKC-derived peptide (R₁₁RFARKGSLRQKNV), 10 µg / ml
 - Recombinant PKC-iota: 1.0 µg / ml
- Filter binding assay
 - MSPH membrane (Millipore)



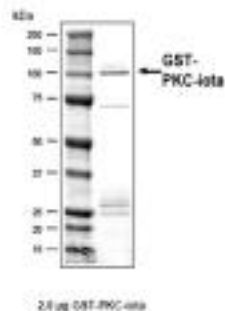
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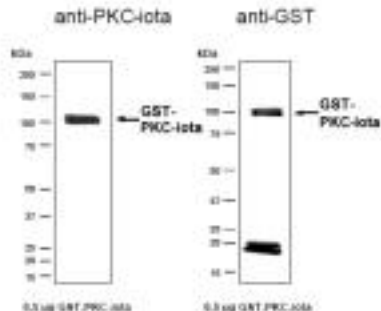
E-mail: info@cellsciences.com
Website: www.cellsciences.com

Storage & Stability: Store in working aliquots at -80°C. **Avoid repeated freeze-thaw cycles.**

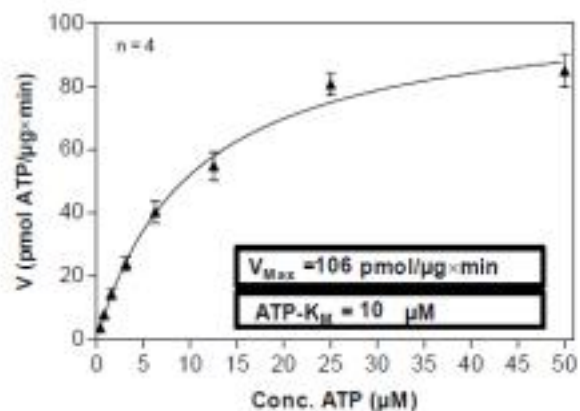
Coomassie stain:



Western blot analysis:



Determination of K_m value for ATP:



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