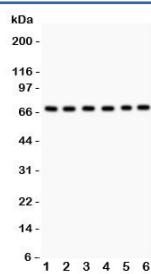


## PKC iota Antibody (R31734)

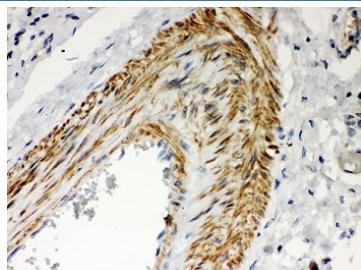
Catalog No.	Formulation	Size
R31734	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

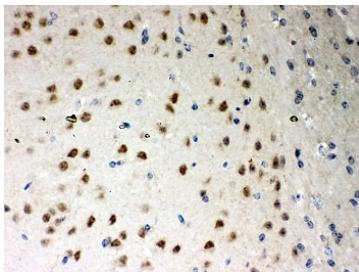
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	5584
Applications	Western Blot : 0.5-1ug/ml IHC (FFPE) : 0.5-1ug/ml
Limitations	This PKC iota antibody is available for research use only.



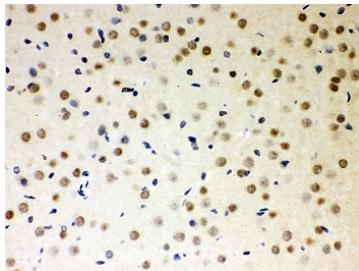
Western blot testing of PKC iota antibody and Lane 1: SHG-44; 2: A549; 3: U87; 4: 293T; 5: HeLa; 6: Jurkat. Predicted/expected size ~68KD



IHC-P: PKC iota antibody testing of human lung cancer tissue



IHC-P: PKC iota antibody testing of mouse brain tissue



IHC-P: PKC iota antibody testing of rat brain tissue

## Description

Protein kinase C iota, also called PKCI, is an enzyme that in humans is encoded by the PRKCI gene. This gene encodes a member of the protein kinase C (PKC) family of serine/threonine protein kinases. 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 it phosphorylates glyceraldehyde-3-phosphate dehydrogenase (GAPD/GAPDH) and plays a role in microtubule dynamics in the early secretory pathway. PRKCI is found to be necessary for BCL-ABL-mediated resistance to drug-induced apoptosis and therefore protects leukemia cells against drug-induced apoptosis. It is also a hedgehog target gene that forms a positive feedback loop with GLI and exists at increased levels in basal cell carcinomas.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the PKC iota antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

Human partial recombinant protein (AA 21-214) was used as the immunogen for this PKC iota antibody.

## Storage

After reconstitution, the PKC iota antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.