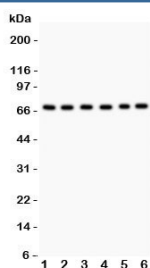


PKC iota Antibody (R31734)

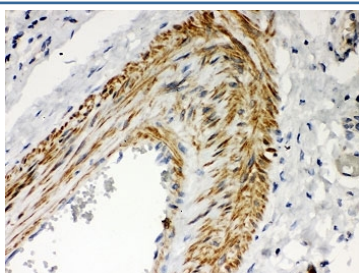
Catalog No.	Formulation	Size
R31734	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

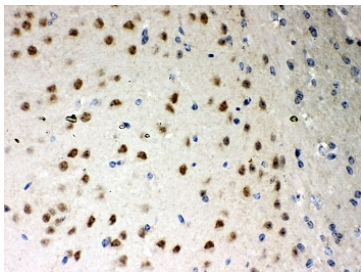
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	5584
Applications	Western Blot : 0.5-1ug/ml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



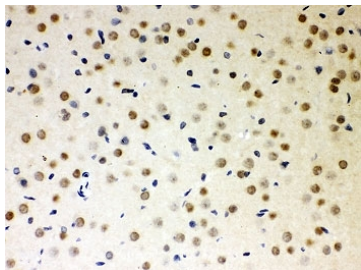
Western blot testing of PKC iota antibody and Lane 1: SHG-44; 2: A549; 3: U87; 4: 293T; 5: HeLa; 6: Jurkat. Predicted/expected size ~68KD



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.