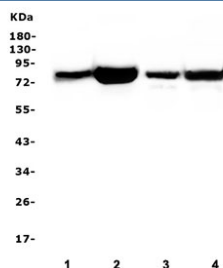


PRKCD Antibody (RQ5529)

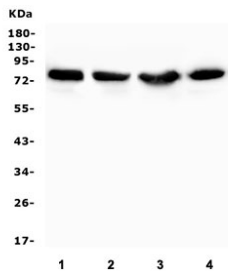
Catalog No.	Formulation	Size
RQ5529	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

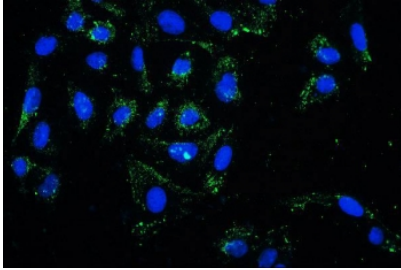
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q05655
Localization	Cytoplasmic, nuclear, plasma membrane
Applications	Western Blot : 0.25-0.5ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Immunofluorescence : 2-4ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This PRKCD antibody is available for research use only.



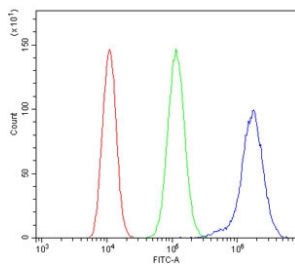
Western blot testing of human 1) placenta, 2) ThP-1, 3) Caco-2 and 4) HEK293 lysate with PRKCD antibody. Predicted molecular weight ~77 kDa.



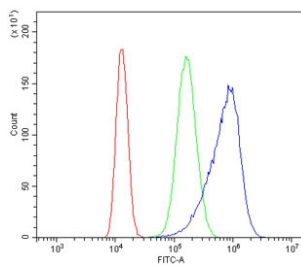
Western blot testing of 1) rat brain, 2) mouse brain, 3) mouse thymus and 4) mouse lung lysate with PRKCD antibody. Predicted molecular weight ~77 kDa.



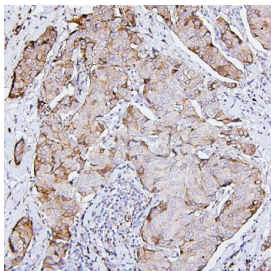
Immunofluorescent staining of FFPE human U-2 OS cells with PRKCD antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



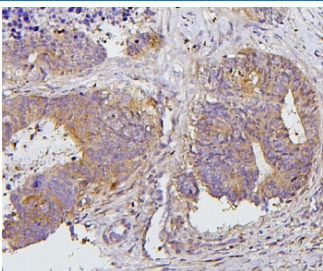
Flow cytometry testing of human ThP-1 cells with PRKCD antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PRKCD antibody.



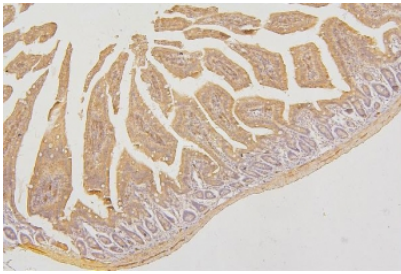
Flow cytometry testing of human Caco-2 cells with PRKCD antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PRKCD antibody.



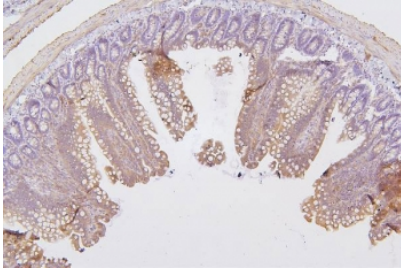
IHC staining of FFPE human breast cancer with PRKCD antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



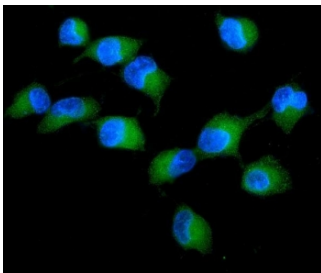
IHC staining of FFPE human colon cancer with PRKCD antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



IHC staining of FFPE mouse intestine with PRKCD antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



IHC staining of FFPE rat intestine with PRKCD antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human A549 cells with PRKCD antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.

Description

Protein kinase C delta type, also called PKCD, is an enzyme that in humans is encoded by the PRKCD gene. The PRKCD gene encodes a member of the protein kinase C family, members of which are critical for regulation of cell survival, proliferation, and apoptosis. This gene is mapped to 3p21.1. Studies both in human and mice demonstrate that this kinase is involved in B cell signaling and in the regulation of growth, apoptosis, and differentiation of a variety of cell types. PRKCD is also regulated by phosphorylation on various tyrosine residues including Y311 (by SRC). It has been showed that PRKCD phosphorylates NLRC4 and that this phosphorylation is critical for inflammasome assembly. It is also a part of a noncanonical WNT signaling cascade.

Application Notes

Optimal dilution of the PRKCD antibody should be determined by the researcher.

Immunogen

A human recombinant protein (amino acids F4-D676) was used as the immunogen for the PRKCD antibody.

Storage

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

