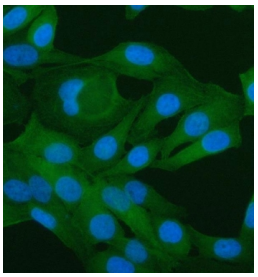
PAWR Antibody / PRKC apoptosis WT1 regulator protein / Par4 (RQ8594)

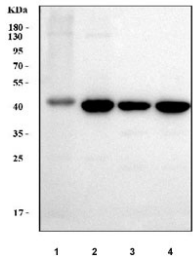
Catalog No.	Formulation	Size
RQ8594	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

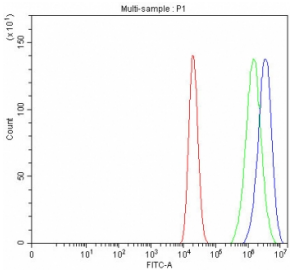
Availability	1-3 days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q96IZ0
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml
Limitations	This PAWR antibody is available for research use only.



Immunofluorescent staining of FFPE human HeLa cells with PAWR antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) SW620, 2) SiHa, 3) RT4 and 4) Caco-2 cell lysate with PAWR antibody. Predicted molecular weight ~35 kDa, commonly observed at 35-43 kDa.



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

Description

PRKC apoptosis WT1 regulator protein, or Prostate apoptosis response-4, is a tumor-suppressor protein coded for in the human by the PAWR gene, that induces apoptosis in cancer cells, but not in normal cells. This gene encodes a tumor suppressor protein that selectively induces apoptosis in cancer cells through intracellular and extracellular mechanisms. The intracellular mechanism involves the inhibition of pro-survival pathways and the activation of Fas-mediated apoptosis, while the extracellular mechanism involves the binding of a secreted form of this protein to glucose regulated protein 78 (GRP78) on the cell surface, which leads to activation of the extrinsic apoptotic pathway. This gene is located on the unstable human chromosomal 12q21 region and is often deleted or mutated different tumors. The encoded protein also plays an important role in the progression of age-related diseases.

Application Notes

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

Immunogen

An E.coli-derived human recombinant protein (amino acids R160-D255) was used as the immunogen for the PAWR antibody.

Storage

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