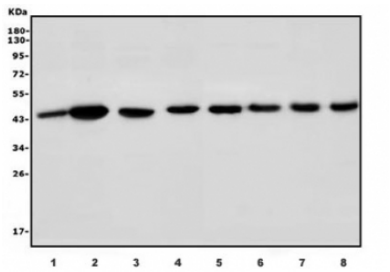
Par4 Antibody / Pawr / Prostate apoptosis response 4 protein (RQ6147)

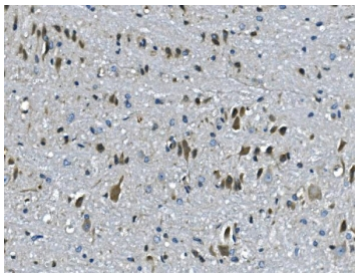
Catalog No.	Formulation	Size
RQ6147	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

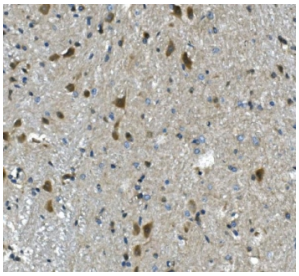
Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q925B0
Localization	Cytoplasmic, nuclear
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Flow cytometry: 1-3ug/million cells Immunofluorescence: 5ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This Par4 antibody is available for research use only.



Western blot testing of 1) rat kidney, 2) rat stomach, 3) rat liver, 4) mouse liver, 5) mouse pancreas, 6) mouse testis and 7) mouse HEPA1-6 lysate with Par4 antibody. Predicted molecular weight ~36 kDa, commonly observed at 36-43 kDa.



IHC staining of FFPE mouse brain with Par4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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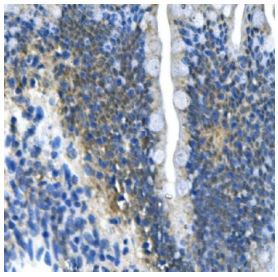
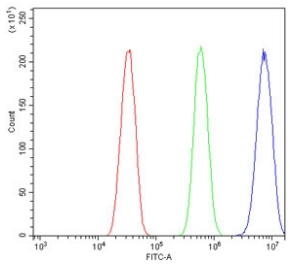
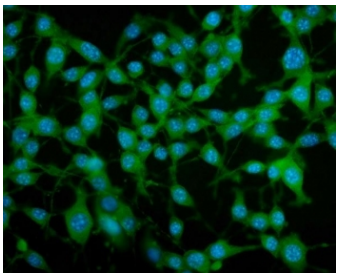


IHC staining of FFPE rat intestine with Par4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Flow cytometry testing of mouse HEPA1-6 cells with Par4 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Par4 antibody.



Immunofluorescent staining of FFPE mouse MFC cells (mouse forestomach carcinoma) with Par4 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.

Description

PRKC, apoptosis, WT1, regulator, also known as PAWR or Prostate apoptosis response-4 (Par-4), is a human gene. 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 Par4 antibody should be determined by the researcher.

Immunogen

A mouse recombinant partial protein (amino acids T13-R333) was used as the immunogen for the Par4 antibody.

Storage

After reconstitution, the Par4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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