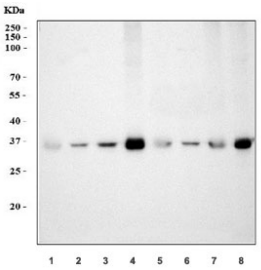
PPIE Antibody / Cyclophilin E [clone 7F2] (RQ6585)

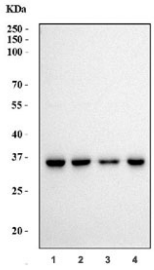
Catalog No.	Formulation	Size
RQ6585	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

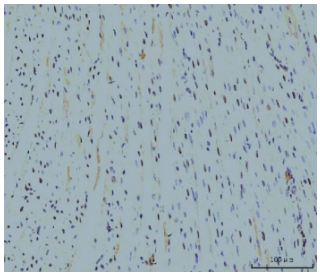
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	7F2
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9UNP9
Localization	Nuclear
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence (FFPE) : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This PPIE antibody is available for research use only.



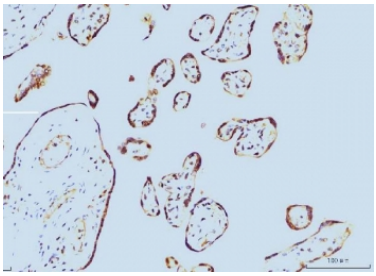
Western blot testing of 1) rat heart, 2) rat brain, 3) rat lung, 4) mouse heart, 5) mouse brain, 6) mouse lung, 7) rat RH35 and 8) mouse HEPA1-6 cell lysate with PPIE antibody. Predicted molecular weight ~33 kDa.



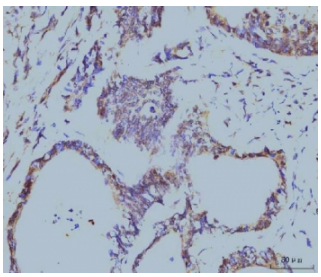
Western blot testing of human 1) HEK293, 2) K562, 3) PC-3 and 4) Caco-2 cell lysate with PPIE antibody. Predicted molecular weight ~33 kDa.



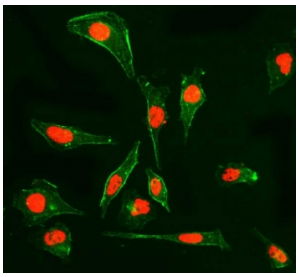
IHC staining of FFPE rat heart tissue with PPIE antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



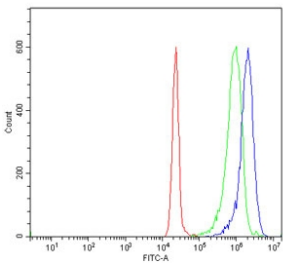
IHC staining of FFPE human placental tissue with PPIE antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



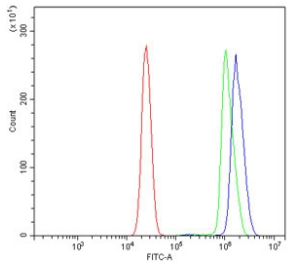
IHC staining of FFPE human colonic adenocarcinoma tissue with PPIE antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human HeLa cells with PPIE antibody (Dylight 594-conjugated secondary, red) and Phalloidin-iFluor 488 conjugate (green). HIER: steam section in pH6 citrate buffer for 20 min.



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



Flow cytometry testing of human U937 cells with PPIE antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PPIE antibody.

Description

Peptidylprolyl isomerase E (cyclophilin E), also known as PPIE, is an enzyme which in humans is encoded by the PPIE gene on chromosome 1. The protein encoded by this gene is a member of the peptidyl-prolyl cis-trans isomerase (PPIase) family. PPIases catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and accelerate the folding of proteins. This protein contains a highly conserved cyclophilin (CYP) domain as well as an RNA-binding domain. It was shown to possess PPIase and protein folding activities, and it also exhibits RNA-binding activity. Alternative splicing results in multiple transcript variants. A related pseudogene, which is also located on chromosome 1, has been identified.

Application Notes

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

Immunogen

Recombinant human protein (amino acids M1-V301) was used as the immunogen for the PPIE antibody.

Storage

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