

For Research Use Only

# PPFIA3 Recombinant antibody

Catalog Number: 83142-4-RR



## Basic Information

### Catalog Number:

83142-4-RR

### Size:

100ul , Concentration: 1000 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1971

### GenBank Accession Number:

BC021255

### GeneID (NCBI):

8541

### UNIPROT ID:

O75145

### Full Name:

protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 3

### Calculated MW:

1194 aa, 133 kDa

### Observed MW:

140 kDa

### Purification Method:

Protein A purification

### CloneNo.:

230459F6

### Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

## Applications

### Tested Applications:

WB, FC (Intra), IP, ELISA

### Species Specificity:

human, mouse, rat

### Positive Controls:

WB : SH-SY5Y cells, mouse brain tissue, rat brain tissue

IP : mouse brain tissue,

## Background Information

PPFIA3, also named as KIAA0654, belongs to the liprin family and Liprin-alpha subfamily. PPFIA3 may regulate the disassembly of focal adhesions. It may localize receptor-like tyrosine phosphatases type 2A at specific sites on the plasma membrane, possibly regulating their interaction with the extracellular environment and their association with substrates. PPFIA3 exhibits more than 5 fold accumulations in the monoribosome fraction. PPFIA3 is decreased at the protein level by the miR-99 family but not in the luciferase reporter with the 3'UTR of PPFIA3. (PMID:21212412)

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

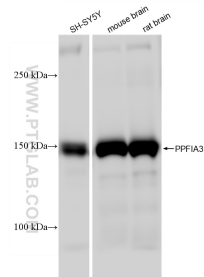
For technical support and original validation data for this product please contact:

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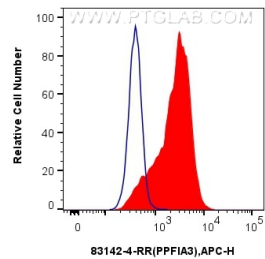
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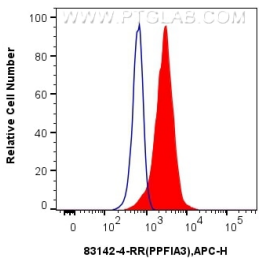
Selected Validation Data



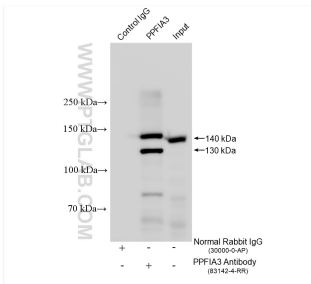
Various lysates were subjected to SDS PAGE followed by western blot with 83142-4-RR (PPPIA3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



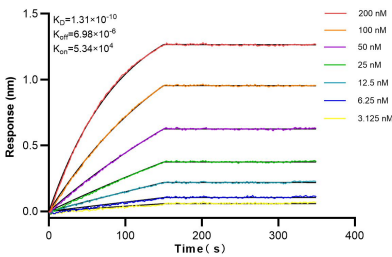
1x10<sup>6</sup> HEK-293 cells were intracellularly stained with 0.25 ug PPPIA3 Recombinant antibody (83142-4-RR, Clone:230459F6) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1x10<sup>6</sup> U-251 cells were intracellularly stained with 0.25 ug PPPIA3 Recombinant antibody (83142-4-RR, Clone:230459F6) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



IP result of anti-PPPIA3 (IP:83142-4-RR, 4ug; Detection:83142-4-RR 1:4000) with mouse brain tissue lysate 2100 ug.



Biolayer interferometry (BLI) kinetic assays of 83142-4-RR against Human PPPIA3 were performed. The affinity constant is 0.131 nM.