

For Research Use Only

# PPFIA3 Recombinant antibody, PBS Only (Capture)

Catalog Number: 83142-4-PBS



## Basic Information

<b>Catalog Number:</b> 83142-4-PBS	<b>GenBank Accession Number:</b> BC021255	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 8541	<b>CloneNo.:</b> 230459F6
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O75145	
<b>Isotype:</b> IgG	<b>Full Name:</b> protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 3	
<b>Immunogen Catalog Number:</b> AG1971	<b>Calculated MW:</b> 1194 aa, 133 kDa	

## Applications

**Tested Applications:**  
WB, IP, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## Product Information

83142-4-PBS targets PPFIA3 as part of a matched antibody pair:

MP00170-2: 83142-4-PBS capture and 83142-3-PBS detection (validated in Cytometric bead array)

MP00170-3: 83142-4-PBS capture and 83142-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

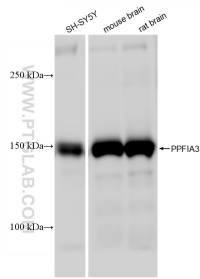
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

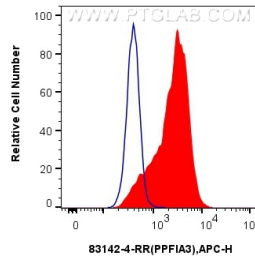
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

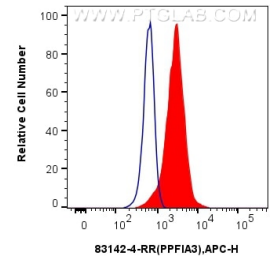
## Selected Validation Data



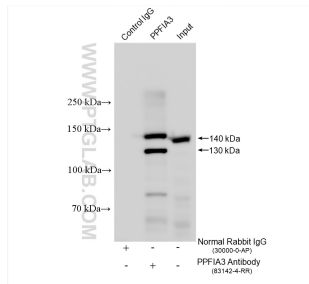
Various lysates were subjected to SDS PAGE followed by western blot with 83142-4-RR (PPFIA3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83142-4-PBS in a different storage buffer formulation.



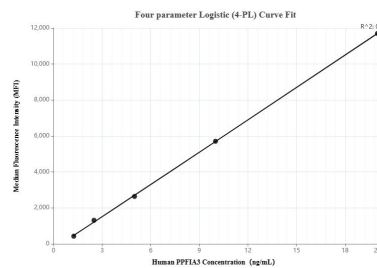
$1 \times 10^6$  HEK-293 cells were intracellularly stained with 0.25 ug PPFIA3 Recombinant antibody (83142-4-RR, Clone:230459F6) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83142-4-PBS in a different storage buffer formulation.



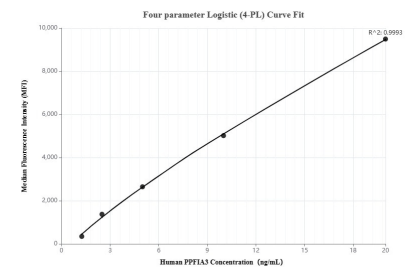
$1 \times 10^6$  U-251 cells were intracellularly stained with 0.25 ug PPFIA3 Recombinant antibody (83142-4-RR, Clone:230459F6) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83142-4-PBS in a different storage buffer formulation.



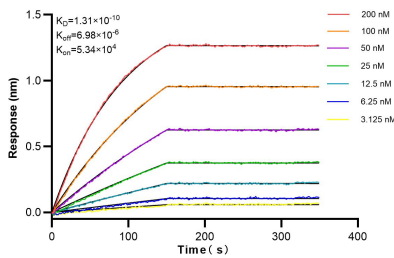
IP result of anti-PPFIA3 (IP:83142-4-RR, 4ug; Detection:83142-4-RR 1:4000) with mouse brain tissue lysate 2100 ug. This data was developed using the same antibody clone with 83142-4-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of mPP00170-2, PPFIA3 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83142-4-PBS. Detection antibody: 83142-3-PBS. Standard: Ag1971. Range: 1.25-20 ng/mL



Cytometric bead array standard curve of mPP00170-3, PPFIA3 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83142-4-PBS. Detection antibody: 83142-2-PBS. Standard: Ag1971. Range: 1.25-20 ng/mL



Biolayer interferometry (BLI) kinetic assays of 83142-4-RR against Human PPFIA3 were performed. The affinity constant is 0.131 nM.