

Rabbit PPFIA2 Polyclonal Antibody | anti-PPFIA2 antibody

Anti-PPFIA2 Antibody Picoband

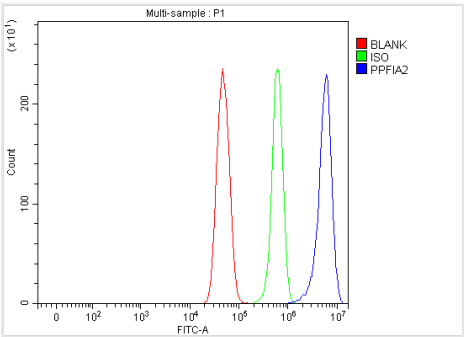
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127733	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PPFIA2; Polyclonal Antibody; Anti-PPFIA2 Antibody Picoband; eva-1 homolog A; regulator of programmed cell death; Protein eva-1 homolog A; Protein FAM176A; Transmembrane protein 166; EVA1A; FAM176A; TMEM166; SP24; anti-PPFIA2 antibody

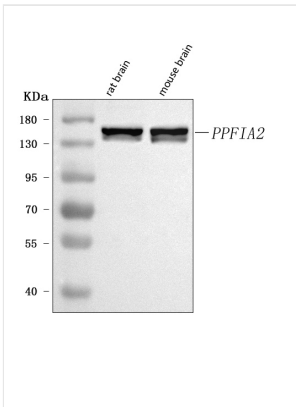
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in lung, kidney, liver, pancreas, placenta, but not in heart and skeletal muscle.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PPFIA2 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human PPFIA2 recombinant protein (Position: E221-C1257).
Subcellular Localization	Endoplasmic reticulum membrane, Single-pass membrane protein, Lysosome membrane
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Acts as a regulator of programmed cell death, mediating both autophagy and apoptosis.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



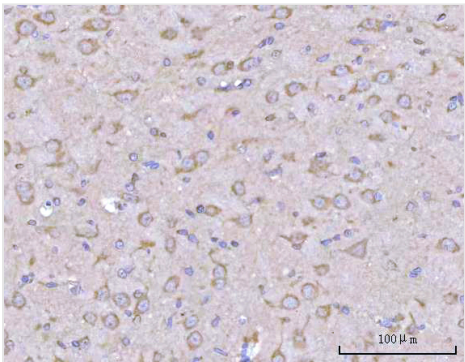
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U251 cells using anti-PPFIA2 antibody (AAA127733).Overlay histogram showing U251 cells stained with AAA127733 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PPFIA2 Antibody (AAA127733, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of PPFIA2 using anti-PPFIA2 antibody (AAA127733).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: rat brain tissue lysates,Lane 2: mouse brain tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PPFIA2 antigen affinity purified polyclonal antibody (#AAA127733) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PPFIA2 at approximately 143 kDa. The expected band size for PPFIA2 is at 143 kDa.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of PPFIA2 using anti-PPFIA2 antibody (AAA127733).PPFIA2 was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PPFIA2 Antibody (AAA127733) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-PPFIA2 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-PPFIA2 antibody	Primary Antibodies; Cell Biology; Proteasome/Ubiquitin; Proteolysis/Ubiquitin; Ubiquitin E3 Enzymes

References	1. Gross, M. B. Personal Communication. Baltimore, Md. 9/2/2022. 2. Serra-Pages, C., Medley, Q. G., Tang, M., Hart, A., Streuli, M. Liprins, a family of LAR transmembrane protein-tyrosine phosphatase-interacting proteins. J. Biol. Chem. 273: 15611-15620, 1998. 3. Stucchi, R., Plucinska, G., Hummel, J. J. A., Zahavi, E. E., Guerra San Juan, I., Klykov, O., Scheltema, R. A., Maarten Altelaar, A. F., Hoogenraad, C. C. Regulation of KIF1A-driven dense core vesicle transport: Ca(2+)/CaM controls DCV binding and liprin-alpha/TANC2 recruits DCVs to postsynaptic sites. Cell Rep. 24: 685-700, 2018.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	333805612
NCBI GeneID	8499
NCBI Accession #	NP_001207402
NCBI GenBank Nucleotide #	NM_003625
UniProt Accession #	O75334; Q2M3G8; B3KVT5; B3KXA0; B7Z2A6; B7Z3U9; B7Z663; B7ZKZ5; E7ERB8; E7ETG6; F8VP68
Molecular Weight	50,251 Da
NCBI Official Full Name	liprin-alpha-2 isoform b
NCBI Official Synonym Full Names	protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 2
NCBI Official Symbol	PPFIA2
NCBI Protein Information	liprin-alpha-2
UniProt Protein Name	Liprin-alpha-2
UniProt Gene Name	PPFIA2
UniProt Synonym Gene Names	PTPRF-interacting protein alpha-2
UniProt Entry Name	LIPA2_HUMAN

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