

Anti-LRPPRC Antibody [PSH24-58]

HA724454



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat, Green monkey, Pig
Applications:	WB, IF-Cell, IHC-P, FC(Intra)
Molecular Wt:	Predicted band size: 158 kDa
Clone number:	PSH24-58

Description: Leucine-rich PPR motif-containing protein, mitochondrial is a protein that in humans is encoded by the LRPPRC gene. Transcripts ranging in size from 4.8 to 7.0 kb which result from alternative polyadenylation have been reported for this gene. This gene encodes a protein that is leucine-rich and is thought to play a role in regulating the interaction of the cytoskeleton with a variety of cellular processes.

Immunogen: Recombinant protein within human LRPPRC aa 651-870.

Positive control: HeLa (Human cervical adenocarcinoma cell) cell lysate, HEK-293 (Human embryonic kidney cell) cell lysate, HepG2 (Human liver cancer cells) cell lysate, SH-SY5Y (Human neuroblastoma cell) cell lysate, RAW264.7 (Mouse monocytic macrophage leukemia cell) cell lysate, NIH/3T3 (Mouse fibroblast) cell lysate, Neuro-2a (Mouse brain neuroblastoma cell) cell lysate, PC-12 (Rat pheochromocytoma cell (undifferentiated)) cell lysate, COS-1 (African green monkey kidney fibroblast) cell lysate, Mouse brain tissue lysate, Mouse heart tissue lysate, Rat brain tissue lysate, Rat heart tissue lysate, Pig brain tissue lysate.

Subcellular location: Mitochondrion, Nucleus, nucleoplasm, Nucleus inner membrane, Nucleus outer membrane.

Database links: SwissProt: P42704 Human | Q6PB66 Mouse | Q5SGE0 Rat

Recommended Dilutions:

WB	1:10,000
IF-Cell	1:100-1:500
IHC-P	1:50-1:200
FC(Intra)	1:1,000

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

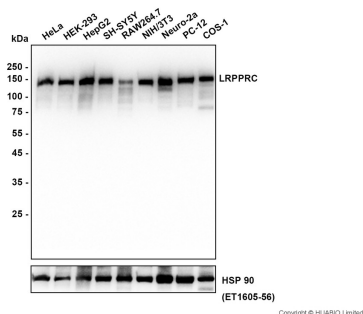
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of LRPPRC on different lysates with Rabbit anti-LRPPRC antibody (HA724454) at 1/10,000 dilution.



Lane 1: HeLa (Human cervical adenocarcinoma cell) cell lysate
 Lane 2: HEK-293 (Human embryonic kidney cell) cell lysate
 Lane 3: HepG2 (Human liver cancer cells) cell lysate
 Lane 4: SH-SY5Y (Human neuroblastoma cell) cell lysate
 Lane 5: RAW264.7 (Mouse monocytic macrophage leukemia cell) cell lysate
 Lane 6: NIH/3T3 (Mouse fibroblast) cell lysate
 Lane 7: Neuro-2a (Mouse brain neuroblastoma cell) cell lysate
 Lane 8: PC-12 (Rat pheochromocytoma cell (undifferentiated)) cell lysate
 Lane 9: COS-1 (African green monkey kidney fibroblast) cell lysate

Lysates/proteins at 15 µg/Lane.

Exposure time: 7 seconds; ECL: K1801

Blocking: 5% NFDM/TBST, 1 hour at room temperature

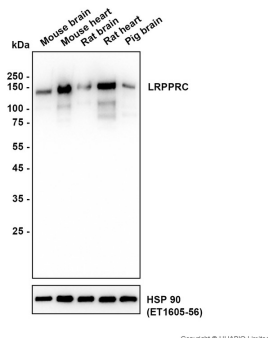
Primary antibody: HA724454, 1/10,000 in primary antibody dilution buffer (K1803), overnight at 4 °C

Secondary antibody: Goat anti-Rabbit IgG-HRP (HA1001), 1/50,000 in 5% NFDM/TBST, 1 hour at room temperature

Predicted band size: 158 kDa

Observed band size: 150 kDa

Fig2: Western blot analysis of LRPPRC on different lysates with Rabbit anti-LRPPRC antibody (HA724454) at 1/10,000 dilution.



Lane 1: Mouse brain tissue lysate
 Lane 2: Mouse heart tissue lysate
 Lane 3: Rat brain tissue lysate
 Lane 4: Rat heart tissue lysate
 Lane 5: Pig brain tissue lysate

Lysates/proteins at 30 µg/Lane.

Exposure time: 7 seconds; ECL: K1801

Blocking: 5% NFDM/TBST, 1 hour at room temperature

Primary antibody: HA724454, 1/10,000 in primary antibody dilution buffer (K1803), overnight at 4 °C

Secondary antibody: Goat anti-Rabbit IgG-HRP (HA1001), 1/50,000 in 5% NFDM/TBST, 1 hour at room temperature

Predicted band size: 158 kDa

Observed band size: 150 kDa

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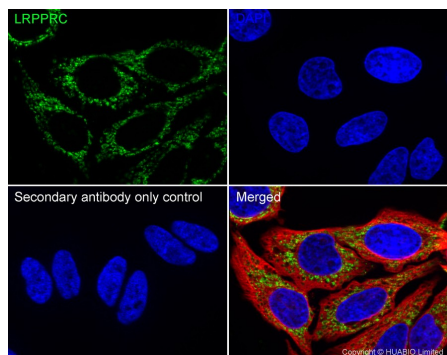


Fig3: Application: Immunocytochemistry (IF-cell)

Species: Human

Sample: HeLa (Human cervix adenocarcinoma epithelial cell)

Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.

Permeabilization: 0.1% Triton X-100, 15 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 1 hour at room temperature.

Antibody dilution buffer: 1% BSA in PBST.

Primary antibody: HA724454, 1/500, overnight at 4°C.

Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 45 minutes at room temperature.

Counterstain: Beta tubulin (HA601187, Red), 1/100, overnight at 4°C. The nuclear counterstain was DAPI (Blue).

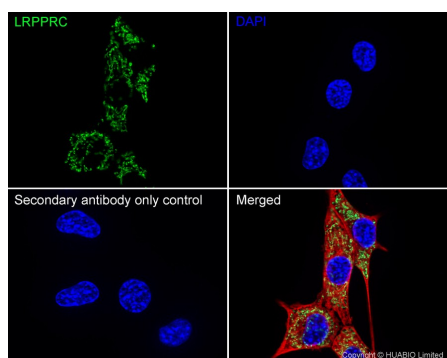


Fig4: Application: Immunocytochemistry (IF-cell)

Species: Mouse

Sample: NIH/3T3 (Mouse fibroblast)

Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.

Permeabilization: 0.1% Triton X-100, 15 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 1 hour at room temperature.

Antibody dilution buffer: 1% BSA in PBST.

Primary antibody: HA724454, 1/500, overnight at 4°C.

Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 45 minutes at room temperature.

Counterstain: Beta tubulin (HA601187, Red), 1/100, overnight at 4°C. The nuclear counterstain was DAPI (Blue).

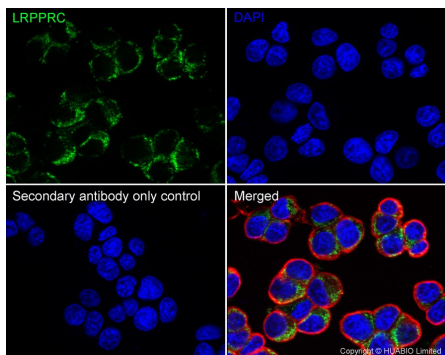


Fig5: Application: Immunocytochemistry (IF-cell)

Species: Rat

Sample: PC-12 (Rat pheochromocytoma cell (undifferentiated))

Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.

Permeabilization: 0.1% Triton X-100, 15 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 1 hour at room temperature.

Antibody dilution buffer: 1% BSA in PBST.

Primary antibody: HA724454, 1/100, overnight at 4°C.

Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 45 minutes at room temperature.

Counterstain: Beta tubulin (HA601187, Red), 1/100, overnight at 4°C. The nuclear counterstain was DAPI (Blue).

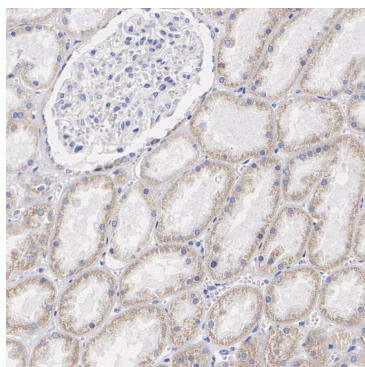


Fig6: Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Kidney

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724454, 1/50, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

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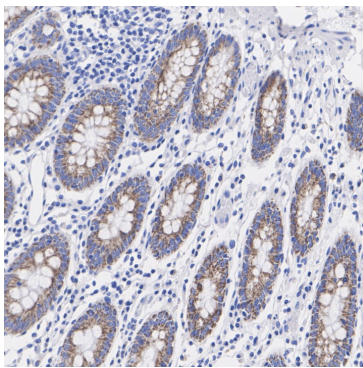
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**Fig7:** Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Colon

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

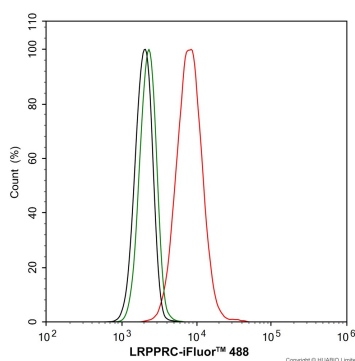
Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724454, 1/200, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

**Fig8:** Application: Flow Cytometry (Intra)

Species: Rat

Sample: PC-12 (Rat pheochromocytoma cells (undifferentiated))

Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.

Permeabilization: 0.1% Tween-20, 15 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 15 minutes at room temperature.

Antibody dilution buffer: 1x PBS.

Primary antibody: HA724454 (1/1,000, Red) compared with Rabbit IgG Isotype Control (HA722127, Green), 15 minutes at room temperature.

Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 15 minutes at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Zhou W et al. The RNA-binding protein LRPPRC promotes resistance to CDK4/6 inhibition in lung cancer. Nat Commun. 2023 Jul
2. Rubalcava-Gracia D et al. LRPPRC and SLIRP synergize to maintain sufficient and orderly mammalian mitochondrial translation. Nucleic Acids Res. 2024 Oct

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