

## PGP9.5 Recombinant Antibody [JM10-59] - Mouse IgG1 (Chimeric)

# HA601514



|                            |   |
|----------------------------|---|
| <b>Product Type:</b>       | Recombinant Chimeric Antibody, primary antibodies |
| <b>Species reactivity:</b> | Human, Mouse, Rat                                 |
| <b>Applications:</b>       | IHC-Fr, IF-Tissue, IHC-P, WB, IF-Cell             |
| <b>Molecular Wt:</b>       | Predicted band size: 25 kDa                       |
| <b>Clone number:</b>       | JM10-59   |

**Description:** Ubiquitin carboxy-terminal hydrolase L1 (EC 3.1.2.15, ubiquitin C-terminal hydrolase, UCH-L1) is a deubiquitinating enzyme. UCH-L1 is a member of a gene family whose products hydrolyze small C-terminal adducts of ubiquitin to generate the ubiquitin monomer. Expression of UCH-L1 is highly specific to neurons and to cells of the diffuse neuroendocrine system and their tumors. It is abundantly present in all neurons (accounts for 1-2% of total brain protein), expressed specifically in neurons and testis/ovary. The catalytic triad of UCH-L1 contains a cysteine at position 90, an aspartate at position 176, and a histidine at position 161 that are responsible for its hydrolase activity.

**Immunogen:** Synthetic peptide within Human PGP95 aa 191-223 / 223.

**Positive control:** Human pancreas tissue, rat pancreas tissue, SH-SY5Y cell lysate, A-172 cell lysate, Neuro-2a cell lysate, C6 cell lysate, SH-SY5Y.

**Subcellular location:** Cytoplasm, Endoplasmic reticulum membrane.

**Database links:** SwissProt: P09936 Human | Q9R0P9 Mouse | Q00981 Rat

### Recommended Dilutions:

|           |          |
|-----------|----------|
| IHC-Fr    | 1:200    |
| IF-Tissue | 1:500    |
| IHC-P     | 1:5,000  |
| WB        | 1:10,000 |
| IF-Cell   | 1:200    |

**Storage Buffer:** PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Protein A affinity purified.

## Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

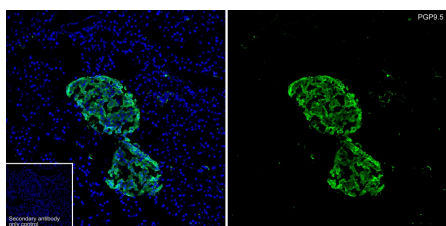
Technical: 0086-571-89986345

Service mail: support@huabio.cn

 华安生物  
HUABIO  
www.huabio.cn

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

## Images

**Fig1:** Application: IHC-Fr

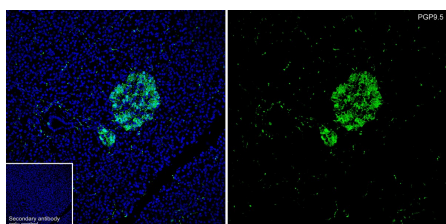
Species: Rat

Site: pancreas

Sample: Frozen section

Antibody concentration: 1/200

Antigen retrieval: Not required

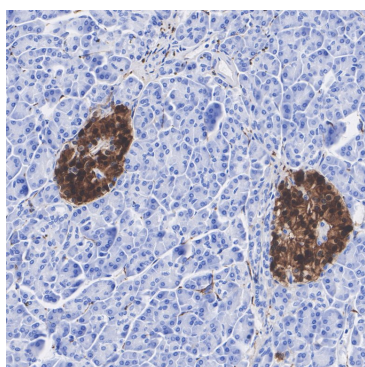
**Fig2:** Application: IF-Tissue

Species: Human

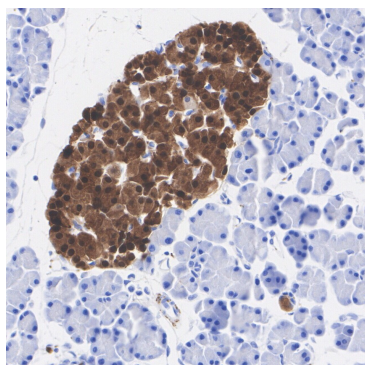
Site: pancreas

Sample: Paraffin-embedded section

Antibody concentration: 1/500

**Fig3:** Immunohistochemical analysis of paraffin-embedded human pancreas tissue with Mouse anti-PGP9.5 antibody (HA601514) at 1/5,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA601514) at 1/5,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

**Fig4:** Immunohistochemical analysis of paraffin-embedded rat pancreas tissue with Mouse anti-PGP9.5 antibody (HA601514) at 1/5,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA601514) at 1/5,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

# Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

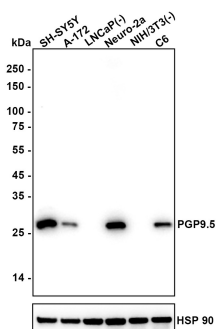
Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物  
HUABIO  
www.huabio.cn

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

**Fig5:** Western blot analysis of PGP9.5 on different lysates with Mouse anti-PGP9.5 antibody (HA601514) at 1/10,000 dilution.



Lane 1: SH-SY5Y cell lysate

Lane 2: A-172 cell lysate

Lane 3: LNCaP cell lysate (negative)

Lane 4: Neuro-2a cell lysate

Lane 5: NIH/3T3 cell lysate (negative)

Lane 6: C6 cell lysate

Lysates/proteins at 10 µg/Lane.

Predicted band size: 25 kDa

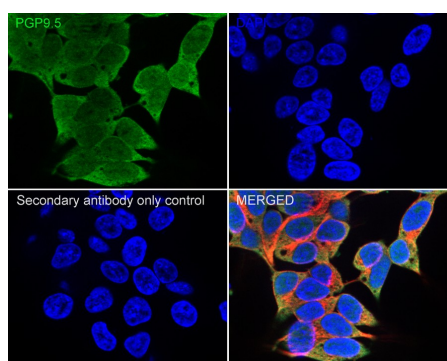
Observed band size: 25 kDa

Exposure time: 10 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA601514) at 1/10,000 dilution was used in primary antibody dilution (K1803) at 4 °C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

**Fig6:** Immunocytochemistry analysis of SH-SY5Y cells labeling PGP9.5 with Mouse anti-PGP9.5 antibody (HA601514) at 1/200 dilution.



Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Mouse anti-PGP9.5 antibody (HA601514) at 1/200 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 488, HA1125) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

beta Tubulin (ET1602-4, red) was stained at 1/100 dilution overnight at +4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 594, HA1122) were used as the secondary antibody at 1/1,000 dilution.

---

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

---

### Background References

1. Jung A et al. Evaluation of PGP 9.5, NGFR, TGFbeta1, FGFR1, MMP-2, AT2R2, SHH, and TUNEL in Primary Obstructive Megaureter Tissue. J Histochem Cytochem. 2022 Feb
2. Esposito JA et al. A study of PGP 9.5 immunohistochemical labeling on formalin-fixed paraffin embedded tissues for epidermal nerve fiber density testing. J Histotechnol. 2024 Sep

**Hangzhou Huaan Biotechnology Co., Ltd.**

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

 华安生物  
HUAABIO  
www.huabio.cn

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