# Product Datasheet

## PGP9.5/PGP9 Mouse Monoclonal Antibody (orb763096)

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| **Catalog Number** | orb763096 |
| **Category** | Antibodies |
| **Description** | Anti-PGP9.5 Antibody (monoclonal, B5G6). Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. |
| **Target** | Ubiquitin carboxyl-terminal hydrolase isozyme L1 |
| **Clonality** | Monoclonal |
| **Species/Host** | Mouse |
| **Isotype** | Mouse IgG1 |
| **Conjugation** | Unconjugated |
| **Reactivity** | Human, Mouse, Rat |
| **Form/Appearance** | Lyophilized |
| **Concentration** | 500 µg/ml |
| **Buffer/Preservatives** | Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4. |
| **Reconstitution** | Add 0.2ml of distilled water will yield a concentration of 500ug/ml. |
| **Purification** | Immunogen affinity purified. |
| **Immunogen** | A synthetic peptide corresponding to a sequence at the C-terminus of human PGP9.5, different from the related mouse and rat sequences by two amino acids. |
| **UniProt ID** | P09936 |

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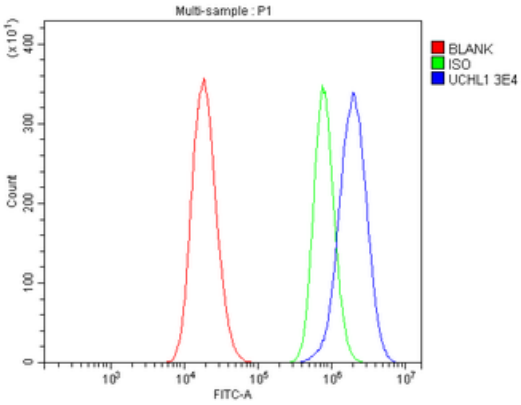
|---|---|
| **MW** | 27 kDa |
| **Tested applications** | FC, IHC, WB |
| **Dilution range** | Western blot, 0.25-0.5µg/ml, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5µg/ml, Human, Rat Flow Cytometry (Fixed), 1-3µg/1x10^6 cells, Human |
| **Cross Reactivity** | No cross-reactivity with other proteins. |
| **Antibody Type** | Primary Antibody |
| **Clone Number** | B5G6 |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Note** | For research use only |
| **Expiration Date** | 12 months from date of receipt. |




Flow Cytometry analysis of 293T cells using anti-PGP9.5 antibody. Overlay histogram showing 293T cells (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 mouse anti-PGP9.5 Antibody (1 µg/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (5-10 µg/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1 µg/1x10^6) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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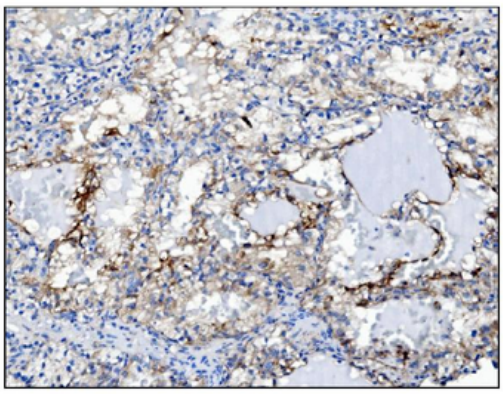
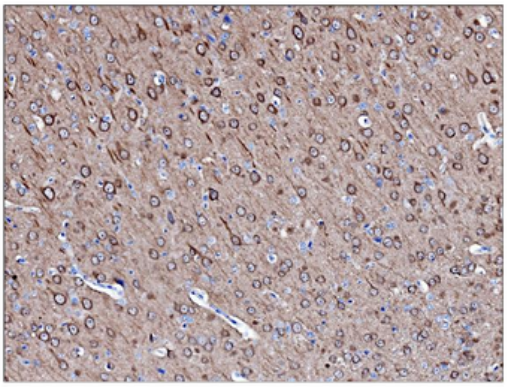


IHC analysis of PGP9.5 using anti-PGP9.5 antibody. PGP9.5 was detected in paraffin-embedded section of human renal clear cell carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 µg/ml mouse anti-PGP9.5 Antibody overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC analysis of PGP9.5 using anti-PGP9.5 antibody. PGP9.5 was detected in paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 µg/ml mouse anti-PGP9.5 Antibody overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

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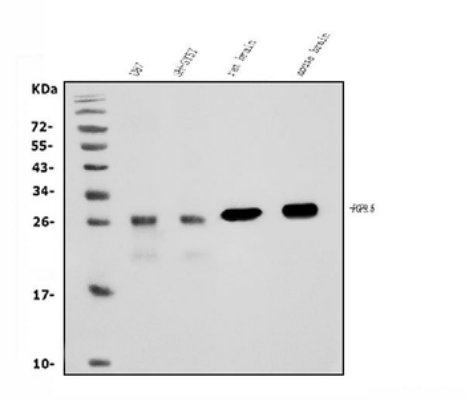


Western blot analysis of PGP9.5 using anti-PGP9.5 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human U87 whole cell lysates, Lane 2: human SH-SY5Y whole cell lysates, Lane 3: rat brain tissue lysates, Lane 4: 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 mouse anti-PGP9.5 antigen affinity purified monoclonal antibody at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 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 PGP9.5 at approximately 27 KD. The expected band size for PGP9.5 is at 27 KD.

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