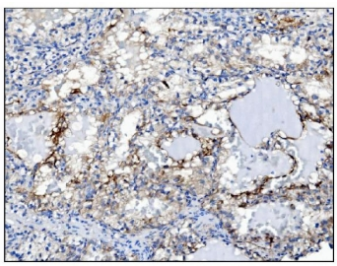
# PGP9.5 Antibody / UchL1 [clone 3E4.] (RQ6534)

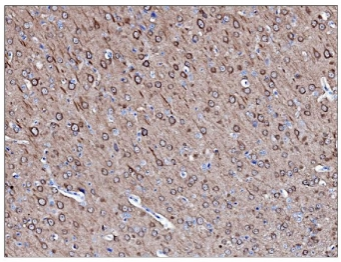
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ6534 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

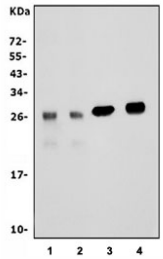
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1 |
| **Clone Name** | 3E4. |
| **Purity** | Affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | P09936 |
| **Localization** | Cytoplasmic, ER membrane |
| **Applications** | Western blot: 1-2ug/ml<br>Immunohistochemistry (FFPE): 2-5ug/ml<br>Flow cytometry: 1-3ug/million cells |
| **Limitations** | This PGP9.5 antibody is available for research use only. |



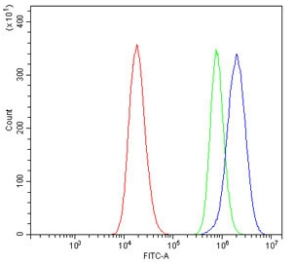
IHC staining of FFPE human renal clear cell carcinoma tissue with PGP9.5 antibody.
HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat brain tissue with PGP9.5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.




Western blot testing of 1) human U-87 MG, 2) human SH-SY5Y, 3) rat brain and 4) mouse brain lysate with PGP9.5 antibody. Predicted molecular weight ~25 kDa.




Flow cytometry testing of human 293T cells with PGP9.5 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PGP9.5 antibody.

## Description

UCH-L1, also known as PGP9.5, 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.

## Application Notes

Optimal dilution of the PGP9.5 antibody should be determined by the researcher.

## Immunogen

Amino acids 120-153 (ETEKMSPEDRAKCFEKNEAIQAAHDAVAQEGQCR) were used as the immunogen for the PGP9.5 antibody.

## Storage

After reconstitution, the PGP9.5 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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