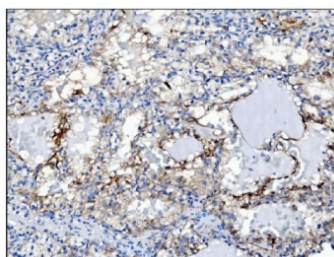


## PGP9.5 Antibody / Uchl1 [clone 3E4.] (RQ6534)

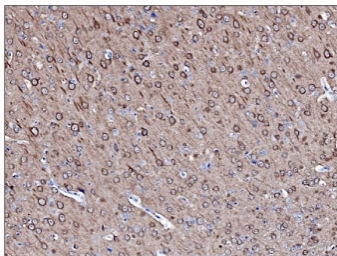
Catalog No.	Formulation	Size
RQ6534	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

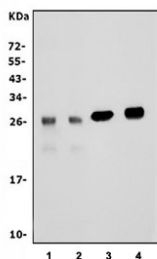
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1
<b>Clone Name</b>	3E4.
<b>Purity</b>	Affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS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



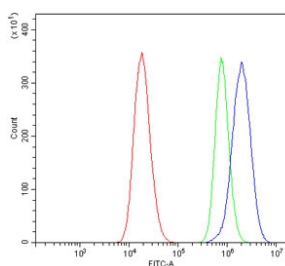
IHC staining of FFPE human renal clear cell carcinoma tissue with PGP9.5 antibody.  
HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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.

