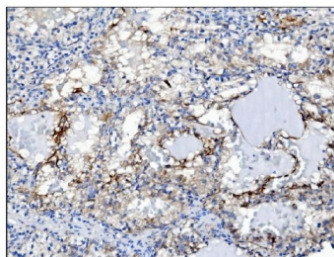


PGP9.5 Antibody / Uchl1 [clone 3E4.] (RQ6534)

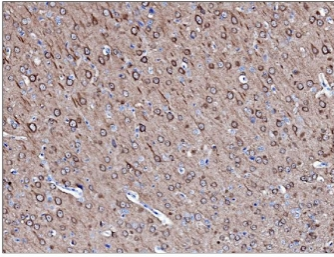
Catalog No.	Formulation	Size
RQ6534	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

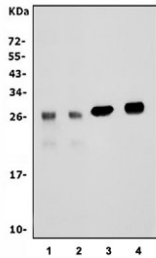
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	3E4.
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P09936
Localization	Cytoplasmic, ER membrane
Applications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



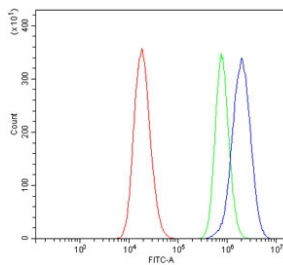
IHC staining of FFPE human renal clear cell carcinoma tissue with PGP9.5 antibody.
HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

