

Human PGP9.5/UCHL1 antibody

Catalog Number: APG0714

PRODUCT INFORMATION

Catalog number

APG0714

Clone No.

3D9

Product type

Monoclonal Antibody

UnitProt No.

P09936

NCBI Accession No.

NP_004172

Alternative Names

Ubiquitin C-terminal hydrolase L1, Ubiquitin carboxyl-terminal esterase L1, Ubiquitin thiolesterase L1, Parkinson Disease 5, PARK5, PGP9.5, Uch-L1, UCHL-1, Neuron cytoplasmic protein 9.5

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human PGP9.5 (1-223aa) purified from E. coli

Isotype

IgG2a kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF, IHC

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and IHC analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

PGP9.5/UCH-L1 is a member of a gene family whose products hydrolyze small C-terminal adducts of ubiquitin to generate the ubiquitin monomer. PGP9.5 is a component of the ubiquitin system, which has a fundamental role in regulating various biological activities. PGP9.5 gene encodes two opposing enzymatic activities that affect alpha-synuclein degradation and Parkinson's disease susceptibility.

General References

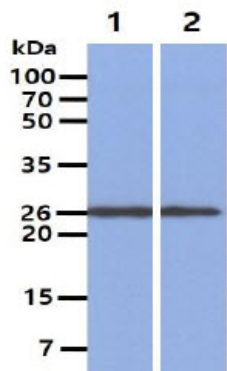
Kenji H et al, (1999) Am J Pathol 155(3):711-715.

Liu Y et al, (2002) Cell 111(2):209-18.

Mikako Sakurai et al, (2006) Cell 119:162-171.

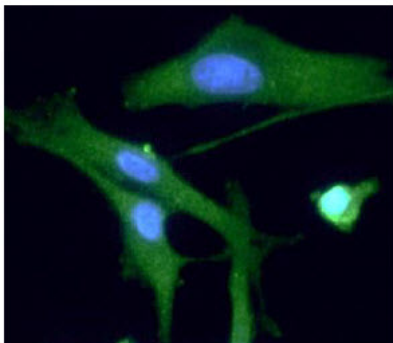
DATA

Western blot analysis (WB)



The cell and tissue lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PGP9.5 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Mouse Brain tissue lysate
Lane 2.: U87MG cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

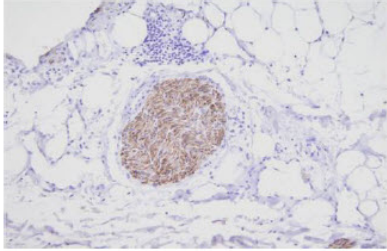


ICC/IF analysis of PGP9.5 in U87MG cells. The cell was stained with APG0714 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Immunohistochemistry (IHC)

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Paraffin embedded sections of human nerve tissue were incubated with anti-human PGP9.5 (1:100) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB).