

For Research Use Only

UCHL1/PGP9.5 Monoclonal antibody, PBS Only



Catalog Number: 66230-1-PBS

Featured Product

Basic Information

Catalog Number:

66230-1-PBS

Size:

100ug , Concentration: 1mg/ml by
Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG6547

GenBank Accession Number:

BC000332

GeneID (NCBI):

7345

UNIPROT ID:

P09936

Full Name:

ubiquitin carboxyl-terminal esterase
L1 (ubiquitin thiolesterase)

Calculated MW:

25 kDa

Observed MW:

27 kDa

Purification Method:

Protein A purification

CloneNo.:

1C9E11

Applications

Tested Applications:

ELISA, IF/ICC, IHC, WB

Species Specificity:

pig, rat, mouse, human

Background Information

Ubiquitin C-terminal hydrolase L1 (UCHL1) was originally identified as a neuronal protein that accounts for nearly 2% of total brain proteins. UCHL1 activity protects neurons from hypoxic injury, and binding of stroke-induced reactive lipid species to the cysteine 152 (C152) of UCHL1 unfolds the protein and disrupts its function. Reduced hydrolytic activity of mutant UCHL1 is implicated in the pathophysiologic process of Parkinson's and Alzheimer's disease due to abnormal neurotoxic protein aggregation. (PMID: 31356902, PMID: 30760601)

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

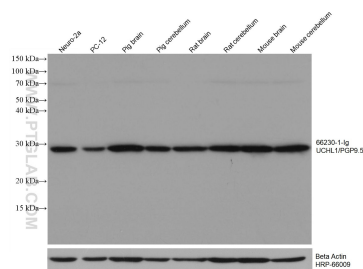
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

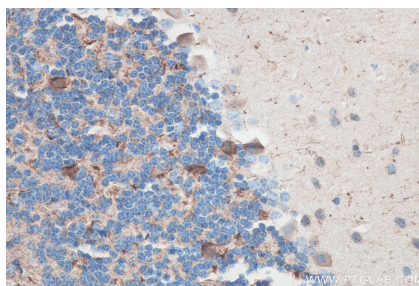
E: proteintech@ptglab.com
W: ptglab.com

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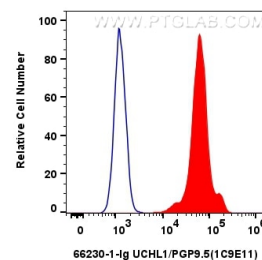
Selected Validation Data



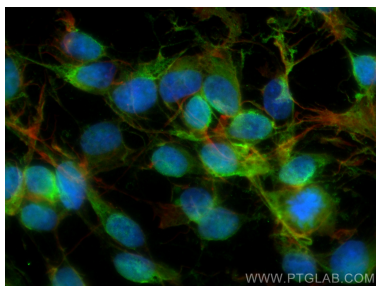
Various lysates were subjected to SDS PAGE followed by western blot with 66230-1-Ig (UCHL1 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control. This data was developed using the same antibody clone with 66230-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 66230-1-g (UCHL1/PGP9.5 antibody) at dilution of 1:8000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66230-1-PBS in a different storage buffer formulation.



1x10⁶ Y79 cells were intracellularly stained with 0.4 μ g UCHL1/PGP95 Monoclonal antibody (66230-1 Ig. Clone: 1C9E11) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.4 μ g Mouse IgG1 Isotype Control (MOPC-21) (65124-1 Ig. Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 66230-1-PBS in a



Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using UCHL1/PGP9.5 antibody (66230-1-Ig, Clone: 1C9E11) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red). This data was developed using the same antibody clone with 66230-1-PBS in a different storage buffer formulation.