For Research Use Only

UCH-L1/PGP9.5 Monoclonal antibody

Catalog Number:66230-1-Ig Featured Product 11 Publications

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Basic Information

Catalog Number:
66230-1-Ig

Size:
150ul , Concentration: 2200 ug/ml by Nanodrop and 1500 ug/ml by Bradford method using BSA as the standard;

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

Recommended Dilutions:
WB 1:20000-1:100000
IHC 1:4000-1:16000
IF/ICC 1:400-1:1600

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat, pig

Cited Species:
human, mouse, rat, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : Neuro-2a cells, Y79 cells, PC-12 cells, Pig brain tissue, Pig cerebellum tissue, Rat brain tissue, Rat cerebellum tissue, Mouse brain tissue, Mouse cerebellum tissue

IHC : mouse cerebellum tissue, rat cerebellum tissue

IF/ICC : A549 cells,

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)

Notable Publications

Author	Pubmed ID	Journal	Application
Xin Zhao	34752678	Reprod Domest Anim	WB, IF
Yumei Luo	27250983	Dig Dis Sci	IF
Xi-Sha Chen	32042339	Theranostics	WB

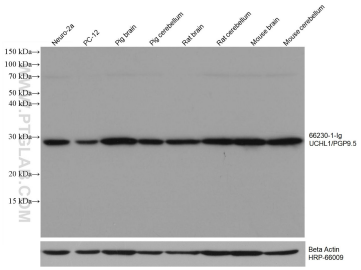
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

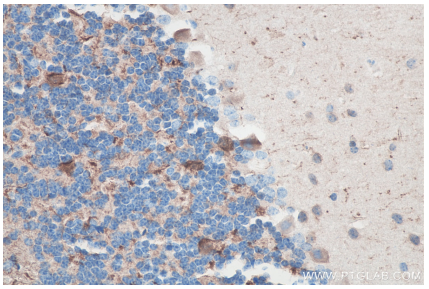
*** 20ul sizes contain 0.1% BSA

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

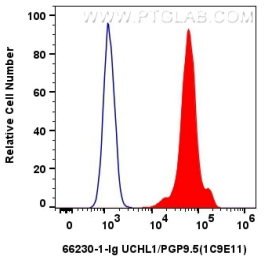
Selected Validation Data



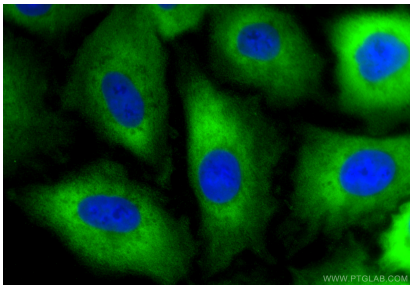
Various lysates were subjected to SDS PAGE followed by western blot with 66230-1-Ig (UCHL1 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 66230-1-Ig (UCHL1/PGP9.5 antibody) at dilution of 1:8000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10^6 Y79 cells were intracellularly stained with 0.4 ug UCHL1/PGP9.5 Monoclonal antibody (66230-1-Ig, Clone:1C9E11) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1) (red), or 0.4 ug 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).



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using UCH-L1/PGP9.5 antibody (66230-1-Ig, Clone: 1C9E11) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).