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Product datasheet for TA301477

PGP9.5 (UCHL1) Rabbit Polyclonal Antibody

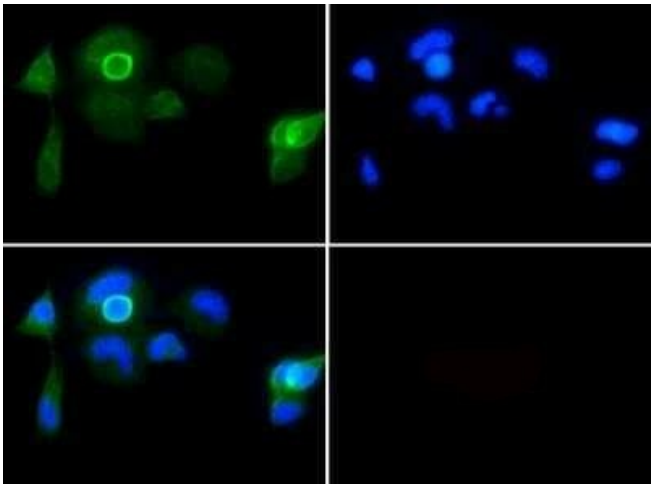
Product data:

Product Type:	Primary Antibodies
Applications:	FC, ICC/IF, IHC, Simple Western, WB
Recommended Dilution:	Flow Cytometry: 2-5 ug/million cells/ml, Simple Western: 1:2000, Immunohistochemistry-Frozen, Western Blot: 2 ug/mL, Immunocytochemistry/ Immunofluorescence: 1:100 - 1:200, Immunohistochemistry: 2.5 - 5.0 ug/mL, Immunohistochemistry-Paraffin: 2.5 - 5.0 ug/mL, Knockout Validated
Reactivity:	Human, Mouse, Monkey, Rat, Porcine, Horse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide made to a C-terminal portion of the human UCHL1 protein (between residues 200-223). [UniProt# P09936]
Formulation:	Tris-glycine and 150mM NaCl and 0.05% sodium azide
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	ubiquitin C-terminal hydrolase L1
Database Link:	NP_004172 Entrez Gene 22223 MouseEntrez Gene 29545 RatEntrez Gene 701579 MonkeyEntrez Gene 7345 Human P09936
Background:	UCHL1 is a soluble cytoplasmic protein with a molecular weight of approximately 25,000 kD. It is present in neurons and in cells of the diffuse neuroendocrine system. UCHL1 functions as a tissue-specific ubiquitin carboxyl terminal hydrolase isoenzyme. This enzyme is also known as PGP9.5. Because of its abundance in nerves, it has been widely used as a marker for peripheral nerve fibers.
Synonyms:	HEL-117; NDGOA; PARK5; PGP 9.5; PGP9.5; PGP95; Uch-L1
Protein Families:	Druggable Genome, Protease

View online »

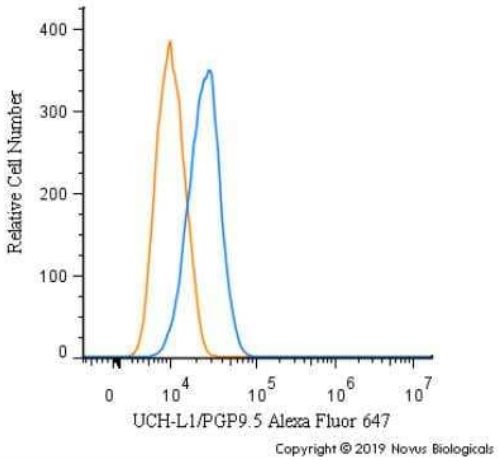
Protein Pathways: Parkinson's disease

Product images:

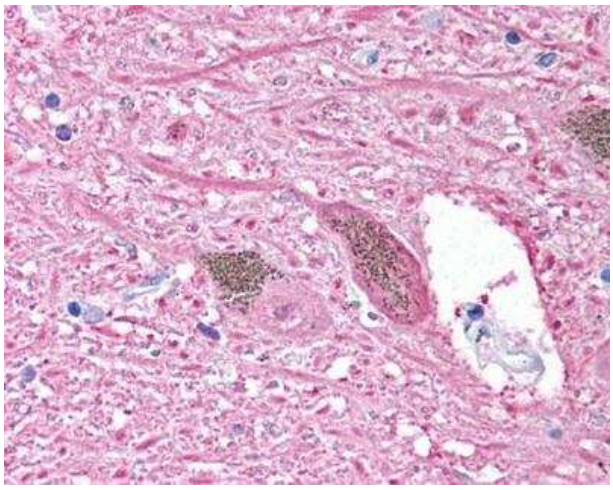


Immunocytochemistry/Immunofluorescence: UCH-L1/PGP9.5 Antibody TA301477 - Neuro2a cells stained with FITC (green). Nuclei were counterstained with DAPI (blue).

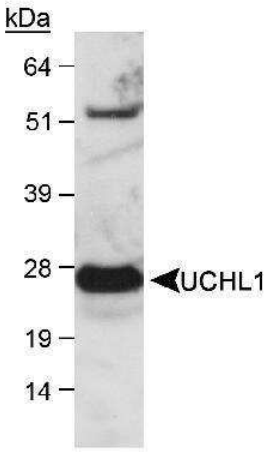
Simple Western: UCH-L1/PGP9.5 Antibody TA301477 - Image shows a specific band for PGP9.5/UCHL-1 in 0.05 mg/mL of Human Brain lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



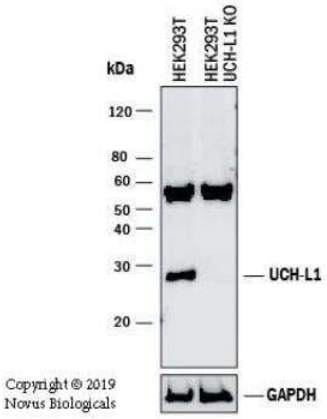
Flow Cytometry: UCH-L1/PGP9.5 Antibody TA301477 - An intracellular stain was performed on U-87 cells with UCH-L1/PGP9.5 Antibody TA301477AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



Immunohistochemistry-Paraffin: UCH-L1/PGP9.5 Antibody TA301477 - Staining of neurons and cell processes at 2.5ug/mL. Human brain, Substantia Nigra, Pigmented Neurons, 4X.



Western Blot: UCH-L1/PGP9.5 Antibody TA301477 - Analysis of UCHL1 in mouse brain lysate ECL detection, 60 seconds.



Knockout Validated: UCH-L1/PGP9.5 Antibody TA301477 - Western blot shows lysates of HEK293T human embryonic kidney parental cell line and UCH-L1/PGP9.5 knockout (KO) HEK293T cell line. PVDF membrane was probed with 2 ug/ml of Rabbit Anti-Human UCH-L1/PGP9.5 Polyclonal Antibody (Catalog # TA301477) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog #HAF008). Specific band was detected for UCH-L1/PGP9.5 at approximately 28 kDa (as indicated) in the parental HEK293T cell line, but is not detectable in the knockout HEK293T cell line. This experiment was conducted under reducing conditions.