ARG11037
anti-UCHL1 / PGP9.5 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes UCHL1 / PGP9.5
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Chk, Cow, Hrs, Pig
Tested Application	ICC/IF, IHC-Fr, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	UCHL1 / PGP9.5
Species	Human
Immunogen	Recombinant full length Human UCHL1 purified from E. coli.
Conjugation	Un-conjugated
Alternate Names	PGP95; UCH-L1; PGP9.5; PARK5; Ubiquitin thioesterase L1; HEL-117; Neuron cytoplasmic protein 9.5; Uch-L1; PGP 9.5; Ubiquitin carboxyl-terminal hydrolase isozyme L1; NDGOA; EC 3.4.19.12

Application Instructions

Application table

Application	Dilution
ICC/IF	1:500
IHC-Fr	1:500
WB	1:5000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: ~ 26 kDa

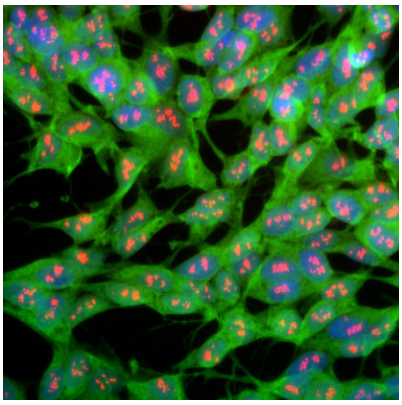
Properties

Form	Liquid
Purification	Unpurified.
Buffer	Serum
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	UCHL1
Gene Full Name	ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)
Background	The protein encoded by this gene belongs to the peptidase C12 family. This enzyme is a thiol protease that hydrolyzes a peptide bond at the C-terminal glycine of ubiquitin. This gene is specifically expressed in the neurons and in cells of the diffuse neuroendocrine system. Mutations in this gene may be associated with Parkinson disease.[provided by RefSeq, Sep 2009]
Function	Ubiquitin-protein hydrolase involved both in the processing of ubiquitin precursors and of ubiquitinated proteins. This enzyme is a thiol protease that recognizes and hydrolyzes a peptide bond at the C-terminal glycine of ubiquitin. Also binds to free monoubiquitin and may prevent its degradation in lysosomes. The homodimer may have ATP-independent ubiquitin ligase activity. [UniProt]
Calculated Mw	25 kDa
PTM	O-glycosylated. [UniProt]

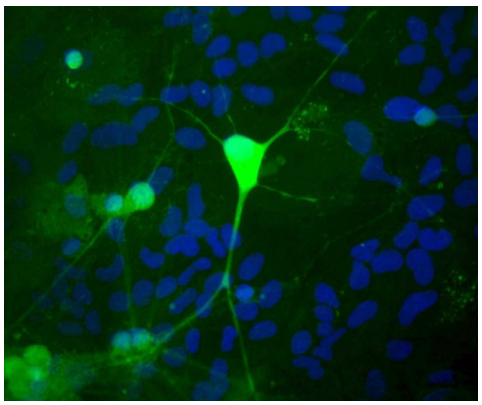
Images



ARG11037 anti-UCHL1 / PGP9.5 antibody ICC/IF image

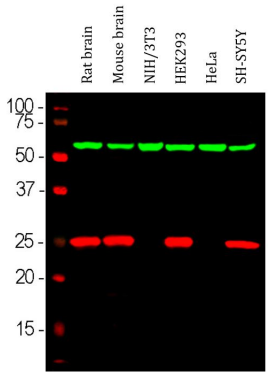
Immunofluorescence: SH-SY5Y cells stained with ARG11037 anti-UCHL1 / PGP9.5 antibody (green) at 1:1000 dilution and costained with ARG52280 anti-Fibrillarin antibody [38F3] (red) at 1:1000 dilution. DAPI (blue) for nuclear staining.

The UCHL1 antibody produces strong staining of the cellular cytoplasm of these cells which share many properties with neurons, while the Fibrillarin antibody specifically labels nucleoli.



ARG11037 anti-UCHL1 / PGP9.5 antibody ICC/IF image

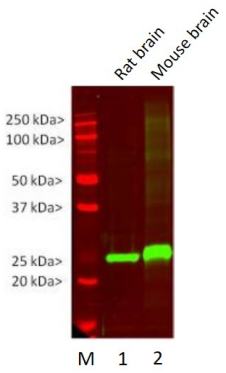
Immunofluorescence: Rat mixed neuron/glial cultures stained with ARG11037 anti-UCHL1 / PGP9.5 antibody (green). Blue is a DNA stain.



ARG11037 anti-UCHL1 / PGP9.5 antibody WB image

Western blot: Rat brain, Mouse brain, NIH/3T3, HEK293, HeLa and SH-SY5Y cell lysates. The blots were stained with ARG11037 anti-UCHL1 / PGP9.5 antibody (red) at 1:2000 dilution and Mouse mAb to Hsp 60 (green) at 1:10000 dilution.

UCHL1 is detectable in CNS extracts and cells with neuronal properties but not in HeLa, NIH/3T3 and other non-neuronal cells.



ARG11037 anti-UCHL1 / PGP9.5 antibody WB image

Western blot: 1) Rat brain and 2) Mouse brain lysates stained with ARG11037 anti-UCHL1 / PGP9.5 antibody.