

Chicken PGP9.5/UCLH1 Polyclonal Antibody | anti-PGP9.5/UCLH1 antibody

PGP9.5/UCLH1

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA76716	Chicken	Human, Mouse, Rat, Bovine, Porcine, Equine	Immunofluorescence, Immunohistochemistry, Western Blot, Immunocytochemistry

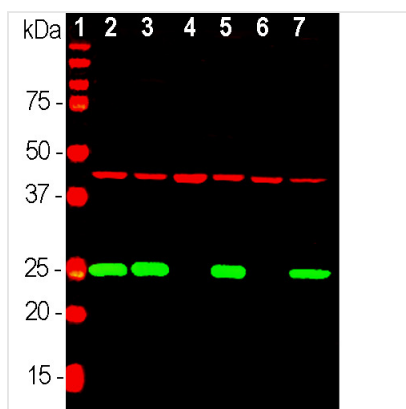
PRODUCT SYNONYMS

PGP9.5/UCLH1; Polyclonal Antibody; anti-PGP9.5/UCLH1 antibody

PRODUCT SPECIFICATIONS

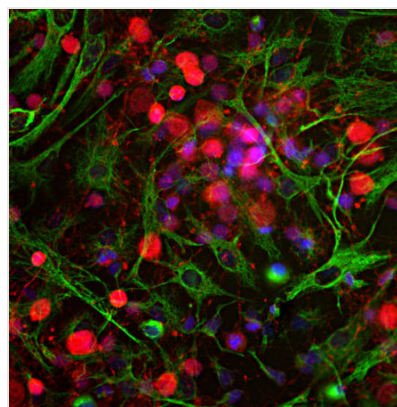
Host	Chicken
Reactivity	Human, Mouse, Rat, Bovine, Porcine, Equine
Clonality	Polyclonal
Isotype	Chicken IgY
Form/Format	Liquid. Supplied as an aliquot of IgY preparation plus 5mM Na ₃
Applicable Applications for anti-PGP9.5/UCLH1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ICC (Immunocytochemistry)
Immunogen	Recombinant full length human UCLH1 expressed in and purified from E coli.
Preparation and Storage	The antibody can be stored at 2 degree - 8 degree C for 12 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of equal amounts of different tissue and cell lysates using chicken pAb to UCLH1, AAA76716, dilution 1:2,000 in green, and mouse mAb to Actin in red: [1] protein standard, [2] rat brain, [3] mouse brain, [4] NIH-3T3, [5] HEK293, [6] HeLa and [7] SH-SY5Y cells. The single band at 24 kDa mark corresponds to UCLH1 protein which is detectable in CNS extracts and lysates of cells with neuronal properties.



IF (Immunofluorescence)

Immunofluorescent analysis of cortical neuron-glia cell culture from E20 rat stained with chicken pAb to UCLH1, AAA76716, dilution 1:500 in red, and costained with mouse mAb to vimentin in green. The blue is Hoechst staining of nuclear DNA. The UCLH1 antibody produces strong staining of the cell body and dendrites in neurons. The vimentin antibody stains intermediate filaments in fibroblastic and developing glial cells.

ADDITIONAL INFORMATION

Related Product Information for anti-PGP9.5/UCHL1 antibody

Ubiquitin C-terminal hydrolase 1 (UCHL1) is an extremely abundant protein of brain, where it is localized only in neurons. It was originally named PGP9.5 and discovered as a major protein spot on 2D gels of brain extracts which was absent on similar gels of other tissues. Later it was found that the PGP9.5 protein was an enzyme which could cleave ubiquitin monomers from ubiquitin conjugates and polyubiquitin chains, resulting in recycling of ubiquitin monomers and the renaming of PGP9.5 to UCHL1 to reflect this enzymatic activity. UCHL1 is an essential enzyme and defects in UCHL1 protein expression are involved in Parkinson's disease (PD) and other more serious disease states. In addition, UCHL1 may be released into cerebrospinal fluid (CSF) and blood following CNS damage and disease resulting in neuronal loss.

This antibody was made against full length recombinant human UCHL1 expressed in and purified from E coli and can be used to identify neurons and their processes in culture or in sections. The antibody works cleanly on appropriate lysates of cell and tissues. Considerable interest has been focused on the detection of UCHL1 in the blood and CSF of patients with traumatic injuries to the brain or spinal cord. This antibody has been widely used as both a capture and a detection reagent in ELISA type assays for measuring UCHL1 levels in blood and CSF samples.

NCBI AND UNIPROT INFORMATION

NCBI GI #	21361091
NCBI GeneID	7345
NCBI Accession #	NP_004172.2
NCBI GenBank Nucleotide #	NM_004181.4
UniProt Accession #	P09936 ; Q4W5K6 ; Q71UM0
Molecular Weight	24,824 Da
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase isozyme L1
NCBI Official Synonym Full Names	ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)
NCBI Official Symbol	UCHL1
NCBI Official Synonym Symbols	PARK5; PGP95; PGP9.5; Uch-L1; PGP 9.5
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase isozyme L1; ubiquitin thioesterase L1; neuron cytoplasmic protein 9.5; ubiquitin C-terminal hydrolase
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase isozyme L1
UniProt Gene Name	UCHL1
UniProt Synonym Gene Names	UCH-L1; PGP9.5
UniProt Entry Name	UCHL1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pgp95-uchl1-antibody-immunofluorescence-immunohistochemistry-western-blot-immunocytochemistry-elisa/76716>