

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product datasheet for TA336530

PGP9.5 (UCHL1) Mouse Monoclonal Antibody [Clone ID: BH7]

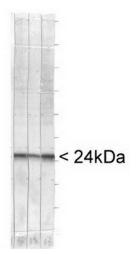
Product data:

Product Type:	Primary Antibodies
Clone Name:	BH7
Applications:	IF, WB
Recommended Dilution:	WB: 1:10000, IF: 1:2000
Reactivity:	Human, Rat, Bovine
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Recombinant full length human UCHL1 purified from E. coli. [Swiss-Prot# P09936]
Formulation:	Preservative: 0.05% Sodium Azide. Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Ascites
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	24 kDa
Gene Name:	ubiquitin C-terminal hydrolase L1
Database Link:	<u>NP_004172</u> <u>Entrez Gene 29545 RatEntrez Gene 7345 Human</u> <u>P09936</u>



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

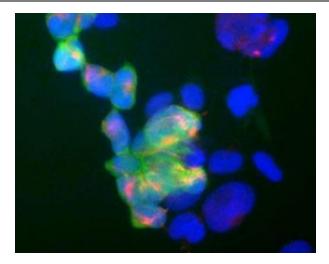
	PGP9.5 (UCHL1) Mouse Monoclonal Antibody [Clone ID: BH7] – TA336530
Background:	UCH-L1 (ubiquitin carboxyl-terminal hydrolase isozyme L1) was the first discovered de- ubiquitinating enzyme which implicates in processing of ubiquitin precursors and also of ubiquitinated proteins. UCH-L1 is a thiol protease that recognizes and hydrolyzes a peptide bond at C-terminal glycine of ubiquitin. It also binds to free monoubiquitin and prevents its degradation in lysosomes. Localized in cytoplasm and ER membrane as lipid-anchor, UCH-L1 expression is restricted to brain, peripheral nerves, endocrine tissues and gonads of both sexes etc. UCH-L1 deletion in mice leads to fatal neurodegenerative disorder known as gracile axonal dystrophy and it is down-regulated in brains from Parkinson as well as Alzheimer disease patients. Expression outside of neuro-endocrine tissues is found in various cancers including B-cell lymphoma, multiple myeloma, and lung cancer. In transgenic mouse model, UCH-L1 has been demonstrated as an oncogene that causes malignancies by boosting AKT signalling. Furthermore, UCH-L1 has been shown to interfere with ubiquitination of RAPTOR which is catalyzed by DDB1-Cul4 E3 ligase complex, leading to loss of mTORC1 integrity accompanied by a concurrent increase in mTORC2, likely due to increased availability of free mTOR.
Synonyms:	HEL-117; NDGOA; PARK5; PGP 9.5; PGP9.5; PGP95; Uch-L1
Note:	This UCHL1 antibody is useful for Immunocytochemistry/Immunofluorescence, Immunohistochemistry and Western Blot, where a band can be seen at approximately 24 kDa.
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Parkinson's disease
Product image	S:



Western Blot: PGP9.5 / UCHL-1 Antibody (BH7) TA336530 - Blots of whole cell homogenate of bovine brain stained with TA336530 (right most lane) and two other monoclonal antibodies reactive with UCHL1 (left and central lane). All three antibodies show a s

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US





Immunocytochemistry/Immunofluorescence: PGP9.5 / UCHL-1 Antibody (BH7) TA336530 -Shows human embryonic kidney cell line 293 stained with mouse monoclonal to UCHL1 (TA336530) (green) and rabbit antibody to neurofilament NF-M, (NB300-133), (red). Blue i

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US