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Product Data Sheet

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Cat # RP-986

Recombinant Human Ubiquitin Carboxyl-Terminal Hydrolase L1

**Size:**  10 ug

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UCHL1 (PGP9.5) belongs to a gene family whose products hydrolyze small C-terminal adducts of ubiquitin to produce the ubiquitin monomer. Protein Gene Product (PGP9.5) is a neuron specific protein, structurally and immunologically distinct from neuron specific enolase. Human UCHL1 and UCHL3 have an extremely complicated knot structure for a protein, with five knot crossings. It is considered that the knot structure may increase a protein's resistance to degradation in the proteasome. The protein, which has a molecular weight of 27 kDa was first defined by high resolution two dimensional PAGE. Standard immunohistochemical techniques have demonstrated the presence of PGP9.5 in neurons and nerve fibers at all levels of the central and peripheral nervous system, in many neuroendocrine cells, in segments of the renal tubules, in spermatogonia and Leydig cells of the testis, in ova and in some cells of both the pregnant and non pregnant corpus luteum.

**SOURCE:**

PGP9.5 Human Recombinant full length protein expressed in E.coli, shows a 36 kDa band on SDS-PAGE. PGP9.5 in 50mM Tris-Acetate, pH7.5, 1mM EDTA, 20% Glycerol.

**APPLICATION AND SUGGESTED DILUTIONS:**

ELISA, Inhibition Assays, Western Blotting. Users must optimize the appropriate concentration and conditions for each assay.

**STORAGE & STABILITY:**

Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. If supplied in powder then reconstitute it in 100ul water for 1mg/mL stock and store in liquid at 4°C for ~ 1week or aliquots in suitable size and store at -20°C for long term storage.

**USAGE:**

This item is for LABORATORY RESEARCH USE ONLY.

RP-986

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