

Product datasheet

Recombinant Human PGP9.5 protein (Tagged) ab185598

Description

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| Product name | Recombinant Human PGP9.5 protein (Tagged) |
| Purity | > 90 % SDS-PAGE. The final product was refolded using a unique “temperature shift inclusion body refolding technology and chromatographically purified. |
| Expression system | Escherichia coli |
| Accession | <u>P09936</u> |
| Protein length | Full length protein |
| Animal free | No |
| Nature | Recombinant |
| Species | Human |
| Sequence | MLKPMEINPEMLNKVLSRLGVAGQWRFVDVLGLEEESL GSVPAPACALL LLFPLTAQHENFRKKQIEELKGQEVSPKVYFMKQTIGNSC GTIGLIHAVA NNQDKLGFEDGSVLKQFLSETEKMSPEDRAKCFEKNEAI QAAHDAVAQEG QCRVDDKVNHFHILFNNVDGHLIYELDGRMPFPVNHGASS EDTLLKDAAKV CREFTEREQGEVRFSAVALC |
| Predicted molecular weight | 24 kDa |
| Amino acids | 1 to 220 |
| Tags | His-T7 tag N-Terminus |
| Additional sequence information | Mature protein constructed with a T7-His-TEV cleavage site Tag (29 amino acids) fusion at the N-terminal. |

Specifications

Our **Abpromise guarantee** covers the use of **ab185598** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications SDS-PAGE

Form Liquid

Additional notes

1. May be used for in vitro UCHL1 protein mediated neuronal cell differentiation regulation study with "ProFectin" based intracellular delivery of this protein.
2. May be used for UCHL1 protein – protein interaction assay.
3. As Enzymatic substrate for various proteases.
4. Potential diagnostic biomarker protein for various cancer diseases.
5. May be used for specific antibody production.

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituent: 0.32% Tris HCl

Contains NaCl, KCl, EDTA, arginine, DTT and Sucrose.

General Info

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.

Tissue specificity

Found in neuronal cell bodies and processes throughout the neocortex (at protein level). Expressed in neurons and cells of the diffuse neuroendocrine system and their tumors. Weakly expressed in ovary. Down-regulated in brains from Parkinson disease and Alzheimer disease patients.

Involvement in disease

Parkinson disease 5
Neurodegeneration with optic atrophy, childhood-onset

Sequence similarities

Belongs to the peptidase C12 family.

Post-translational modifications

O-glycosylated.

Cellular localization

Cytoplasm. Endoplasmic reticulum membrane. About 30% of total UCHL1 is associated with membranes in brain.

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