

## Product datasheet

# Recombinant Human PGP9.5 protein (His tag) ab220529

1 Image

### Description

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<b>Product name</b>	Recombinant Human PGP9.5 protein (His tag)
<b>Purity</b>	> 95 % SDS-PAGE.
<b>Endotoxin level</b>	< 1.000 Eu/μg
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<b><u>P09936</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	QLKPMEINPEMLNKVLSRLGVAGQWRFVDVLGLEEESLG SVPAPACALLL LFPLTAQHENFRKKQIEELKGQEVSPKVYFMKQTIGNSCG TIGLIHAVAN NQDKLGFEDGSVLKQFLSETEKMSPEDRAKCFEKNEAIQ AAHDAVAQEGQ CRVDDKVNHFHILFNNVDGHLIELDGRMPFPVNHGASSE DTLLKDAAKVC REFTEREQGEVRFSAVALCKAA
<b>Predicted molecular weight</b>	26 kDa including tags
<b>Amino acids</b>	2 to 223
<b>Tags</b>	His tag N-Terminus

### Specifications

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Our **Abpromise guarantee** covers the use of **ab220529** 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** Lyophilized

### Preparation and Storage

**Stability and Storage**

Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.4

Constituents: 2.9% Sodium chloride, 0.24% Tris, 5% Trehalose

Lyophilized from 0.22 µm filtered solution.

5-10% trehalose is commonly used for freeze drying, and after reconstitution, the trehalose is mostly about 3-5%

**Reconstitution**

Reconstitute with sterile deionized water to a concentration of 200 µg/ml.

**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.

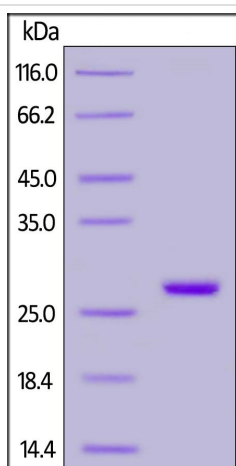
**Post-translational modifications**

O-glycosylated.

**Cellular localization**

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

**Images**



SDS-PAGE of reduced ab220529 stained overnight with Coomassie Blue. The protein migrates as 27-28 kDa under reducing conditions.

SDS-PAGE - Recombinant Human PGP9.5 protein (His tag) (ab220529)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### **Our Abpromise to you: Quality guaranteed and expert technical support**

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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