

Product datasheet

Recombinant human PGP9.5 protein ab198431

2 Images

Description	
Product name	Recombinant human PGP9.5 protein
Biological activity	<p>Specific activity: 7433 pmol/min/µg.</p> <p>Assay Conditions: Reaction was performed in 50 mM Tris, pH 7.4, 1 mM DTT, 0.5 mM EDTA, 500 nM Ub-AMC, and PGP9.5. Reaction was incubated at 37°C for 15 min. and fluorescent signal was measured at excitation of 340 nm, and emission at 460 nm.</p>
Purity	> 90 % SDS-PAGE.
Expression system	Escherichia coli
Accession	<b><u>P09936</u></b>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	QLKPMEINPEMLNKVLSRLGVAGQWRFVDVLGLEEESLG SVPAPACALLL LFPLTAQHENFRKKQIEELKGQEVSPKVYFMKQTIGNSCG TIGLIHAVAN NQDKLGFEDGSVLKQFLSETEKMSPEDRAKCFEKNEAIQ AAHDAVAQEGQ CRVDDKVNHFHILFNNVDGHLIELDGRMPFPVNHGASSE DTLLKDAAKVC REFTEREQGEVRFSAVALCKAA
Predicted molecular weight	25 kDa
Amino acids	2 to 223
Tags	His tag N-Terminus
Additional sequence information	NM_004181.

Specifications

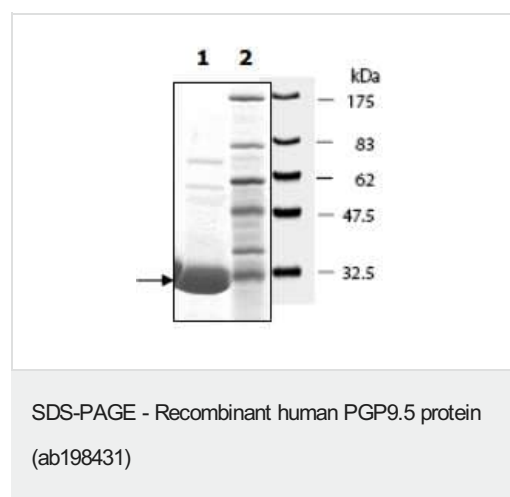
Our **Abpromise guarantee** covers the use of **ab198431** in the following tested applications.

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

**Applications** Functional Studies

	SDS-PAGE
<b>Form</b>	Liquid
<b>Preparation and Storage</b>	
<b>Stability and Storage</b>	<p>Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.</p> <p>pH: 8.00</p> <p>Preservative: 1.53% Imidazole</p> <p>Constituents: 0.71% Tris HCl, 0.72% Sodium chloride, 0.02% Potassium chloride, 0.05% (R*,R*)-1,4-Dimercaptobutan-2,3-diol, 10% Glycerol (glycerin, glycerine)</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
<b>General Info</b>	
<b>Function</b>	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.
<b>Tissue specificity</b>	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.
<b>Involvement in disease</b>	Parkinson disease 5 Neurodegeneration with optic atrophy, childhood-onset
<b>Sequence similarities</b>	Belongs to the peptidase C12 family.
<b>Post-translational modifications</b>	O-glycosylated.
<b>Cellular localization</b>	Cytoplasm. Endoplasmic reticulum membrane. About 30% of total UCHL1 is associated with membranes in brain.

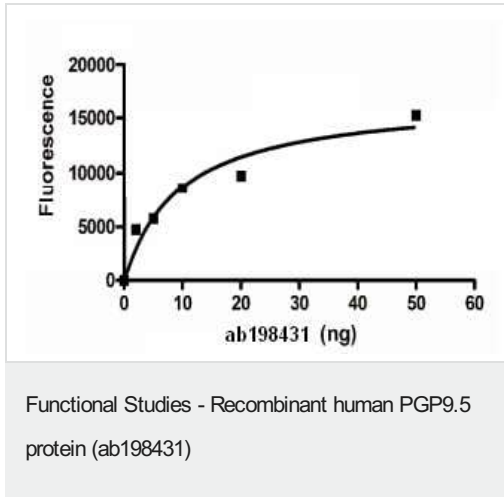
## Images



10% SDS-PAGE Coomassie staining

Lane 1: 5 µg ab198431

Lane 2: Protein Marker



Specific activity of ab198431.

**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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- Valid for 12 months from date of delivery
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- Extensive multi-media technical resources to help you
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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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