abcam

Product datasheet

HRP Anti-PGP9.5 antibody [13C4 / I3C4] ab197735

2 Images

Overview

Product name	HRP Anti-PGP9.5 antibody [13C4 / I3C4]
Description	HRP Mouse monoclonal [13C4 / I3C4] to PGP9.5
Host species	Mouse
Conjugation	HRP
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human **Predicted to work with:** Sheep, Rabbit, Guinea pig, Dog, Pig, Zebrafish
Positive control	WB: human brain, mouse brain, rat brain, rat cortex and human spinal cord tissue lysates and SHSY5Y whole cell lysate. IHC-P: normal human pancreas tissue sections
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS
Purity	Affinity purified
Clonality	Monoclonal
Clone number	13C4 / I3C4
Isotype	IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab197735 in the following tested applications.

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

Application	Abreviews	Notes
WB		1/5000. Detects a band of approximately 25 kDa (predicted molecular weight: 24 kDa).
IHC-P		1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

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.

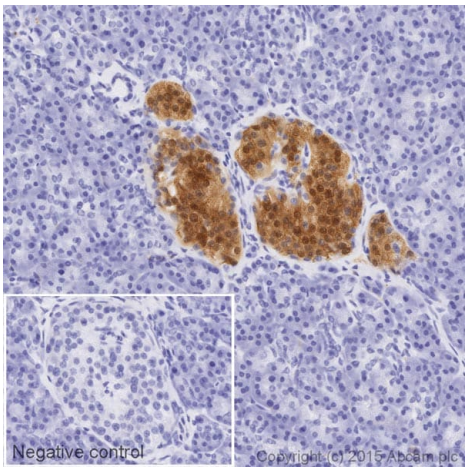
Involvement in disease Parkinson disease 5
Neurodegeneration with optic atrophy, childhood-onset

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

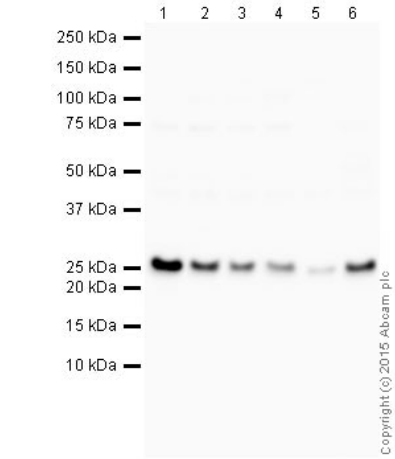


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - HRP Anti-PGP9.5 antibody [13C4 / I3C4] (ab197735)

IHC image of PGP9.5 staining in a section of formalin-fixed paraffin-embedded normal human pancreas*, performed on a Leica BOND™. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab197735, 1/100 dilution, for 15 mins at room temperature. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Western blot - HRP Anti-PGP9.5 antibody [13C4 / I3C4] (ab197735)

All lanes : HRP Anti-PGP9.5 antibody [13C4 / I3C4] (ab197735) at 1/5000 dilution

Lane 1 : Brain (Human) Tissue Lysate - adult normal tissue
Lane 2 : Brain (Rat) Tissue Lysate
Lane 3 : Brain (Mouse) Tissue Lysate
Lane 4 : Brain Cortex (Rat) Tissue Lysate
Lane 5 : SHSY-5Y (Human neuroblastoma cell line) Whole Cell Lysate
Lane 6 : Spinal Cord (Human) Tissue Lysate - adult normal

Lysates/proteins at 20 µg per lane.

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 24 kDa
Observed band size: 25 kDa

Exposure time: 8 seconds

This blot was produced using a 4-12% Bis-tris gel under the MES buffer system. The gel was run at 200V for 35 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine

Serum Albumin before being incubated with ab197735 overnight at 4°C. Antibody binding was visualised using ECL development solution **ab133406**

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

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