

Anti-Protein Gene Product 9.5

Polyclonal Antibody

Cat. # AB1761

Lot # LV1479871

pack size: 50 µL

Store at -20°C

FOR RESEARCH USE ONLY
NOT FOR USE IN HUMANS



Certificate of Analysis

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Applications	Species Cross-Reactivity	Antibody Isotype	Epitope/Region	Host Species	Molecular Weight	Accession #
WB, IH(P)	H, M, R	N/A	N/A	Rb	Varies	NP_004172

Background

Protein Gene Product 9.5 (PGP9.5) is an abundant protein in many tissues, but especially so in neurons where it has been effectively used as a phenotypic marker and is immunologically distinct from neuron specific enolase. The 27 kDa protein was first identified 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. PGP9.5 is known to be a member of the ubiquitin C-terminal hydrolase family and immunohistochemical studies have shown that the protein is enriched in several ubiquitinated inclusion bodies, suggesting that such structures may be metabolically dynamic regions of the cell.

Presentation

Rabbit polyclonal serum in buffer containing liquid containing 0.01 M sodium azide.

Specificity

Protein Gene Product 9.5 (PGP9.5, Ubiquitin C-terminal Hydrolase, UCH-L1) is an abundant protein in many tissues, but especially so in neurons where it has been effectively used as a phenotypic marker. PGP9.5 is known to be a member of the ubiquitin C-terminal hydrolase family and immunohistochemical studies have shown that the protein is enriched in several ubiquitinated inclusion bodies, suggesting that such structures may be metabolically dynamic regions of the cell.

Species Cross-reactivity

Human, rat and mouse. Other species have not been tested.

Immunogen

Recombinant human UCH-L1.

Molecular Weight

24-27 kDa

Method of Purification

UnPurified.

Storage and Handling

Stable for 1 year at -20°C in undiluted aliquots (not less than 10 µL) from date of receipt.

The use of high quality "antiserum-grade" plastic or glass vials is recommended.

Handling Recommendations: Upon first thaw, and prior to removing the cap, centrifuge the vial and gently mix the solution. Aliquot into microcentrifuge tubes and store at -20°C. Avoid repeated freeze/thaw cycles, which may damage IgG and affect product performance.

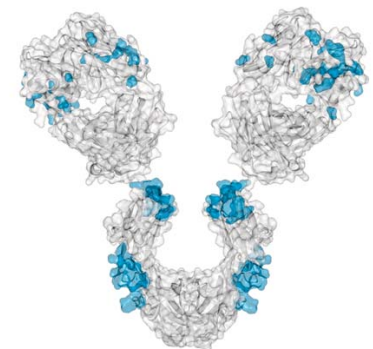
Control

Brain tissue.

Quality Control Testing

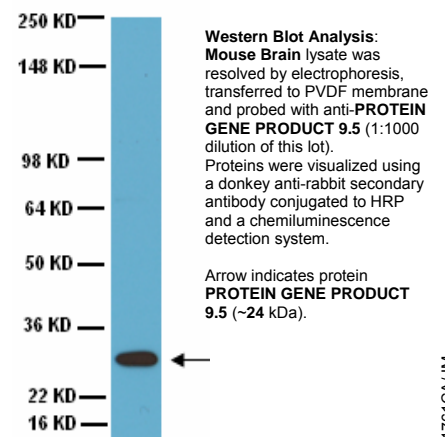
Routinely evaluated by Western Blot on **Mouse Brain** lysates.

Western Blot Analysis: 1:1000 dilution of this lot detected PROTEIN GENE PRODUCT 9.5 on 10 µg of Mouse Brain lysates.



References

1. Artico, M., et al. (2002). *International J. Mole. Med.* 10:77-80.
2. Vo, PA., and Tomlinson, DR., et al. (2001). *Diabetes, Obesity & Metabol.* 3:350-359.
3. Holcomb, IN., et al. (2000). *EMBO.* 19(150):4046-4055.
4. Saigoh, K., et al. (1999). *Nature Genetics.* 23(1):47-51.



APPLICATION LEGEND: WB Western Blotting IP Immunoprecipitation IC Immunocytochemistry IF Immunofluorescence
IH Immunohistochemistry (Tissue) IH(P) Immunohistochemistry (Paraffin)

SPECIES LEGEND: H Human M Mouse R Rat Rb Rabbit WR Most Common Vertebrates

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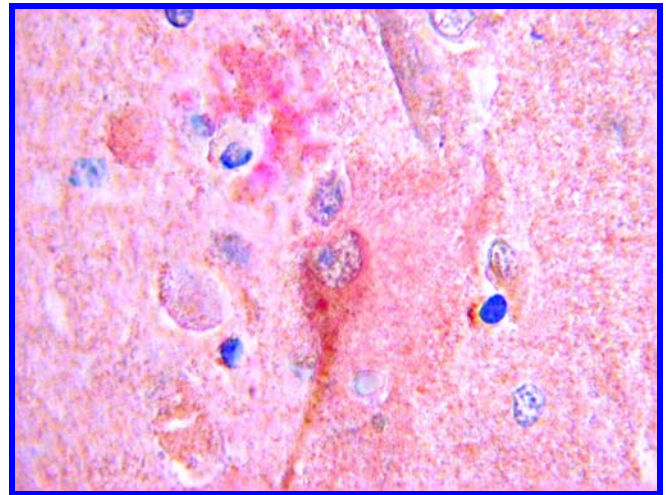
Rev-A/2008-06-26/AB1761CA/JM

Additional Research ApplicationsImmunohistochemistry(paraffin):

Representative image from a previous lot.

AB1761 Rabbit x Protein Gene Product 9.5 representative staining pattern/morphology in Alzheimer's brain. Tissue was pretreated with Citrate pH 6.0, antigen retrieval. A previous lot of this antibody was diluted to 1:100. Double staining with Alzheimer Precursor Protein A4 (MAB348) in Alk. Phos (red color) and AB1761 in HRP-DAB (brown color).

Black arrow indicates ubiquitin staining and red arrow indicates APP-A4. High magnification.

IHC-Paraffin Staining with Citrate pH 6.0 Epitope Retrieval: Alzheimer's Brain.**PROTOCOL****Western Blotting**

1. Perform SDS-polyacrylamide gel electrophoresis (SDS-PAGE) on cell lysate and transfer the proteins to a PVDF membrane. Wash the PVDF membrane twice with water.
2. Block the blotted PVDF membrane in freshly prepared 5% BSA with 0.05% Tween®-20 for 1 hour at room temperature with constant agitation.
3. Incubate the PVDF with the recommended dilution of anti-Protein Gene Product 9.5 in freshly prepared 5% BSA for 1 hour at room temperature or overnight with agitation at 2-8°C.
4. Wash the PVDF 3 times with TBST.
5. Incubate the PVDF in the secondary reagent of choice (a goat anti-rabbit HRP conjugated IgG, Catalog # 12-348 1:1000 dilution was used) in 5% milk for 1 hour with agitation at room temperature.
6. Wash the PVDF 3-5 times with TBST.
7. Use Spray and Glow Catalog # 17-373 to visualize results. Use as directed.

IMMUNOHISTOCHEMISTRY

1. Use standard deparaffinization techniques on tissue specimens.
2. Pretreat tissues using a citrate buffer, pH 6.0 and high heat epitope retrieval techniques.
Note: Do not allow tissues to dry out during the staining procedure.
The following steps are taken from the product manual for IHC Select® HRP/DAB Detection Kit (Cat. No. DAB050)
3. Apply the blocking reagent to the tissue specimen and incubate in an enclosed chamber for 5 minutes.
4. While holding the slide at a 45o angle, gently rinse the specimen with 1X Rinse Buffer for a minimum of 15 seconds. Tap the end of the slide onto a paper towel to remove excess Rinse Buffer.
5. Apply a 1:50-1:500 dilution of primary antibody over the entire tissue specimen and incubate in an enclosed chamber at room temperature for 60 minutes.
6. Rinse specimen as performed in Step 3.
7. Apply the biotinylated secondary antibody to the tissue specimen and incubate in an enclosed chamber for 10 minutes.
8. Rinse specimen as performed in Step 3.
9. Apply the Streptavidin-HRP solution to the tissue specimen and incubate in an enclosed chamber for 10 minutes.
10. Rinse specimen as performed in Step 3.
11. Apply the DAB (chromogen reagent) to the tissue specimen and incubate in an enclosed chamber for 10 minutes.
12. Rinse specimen as performed in Step 3.
13. Apply the Hematoxylin counterstain solution to the tissue specimen and incubate in an enclosed chamber for 1 minute.
14. Rinse specimen as performed in Step 3.
15. Place the tissue slides directly into a container filled with deionized water until mounting.
16. Mount a coverslip using an aqueous-based mounting media or for permanent mounting, dehydrate tissue through a graded series of alcohols, immerse in xylene, then apply a xylene-based mounting media (e.g. Permount) and coverslip.

Important Note: During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.

■ antibodies ■ Multiplex products ■ biotools ■ cell culture ■ enzymes ■ kits ■ proteins/peptides ■ siRNA/cDNA products

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RELATED PRODUCTS (specific)

cat #	description
AB1761	■ Anti-Protein Gene Product 9.5
AB1761ASR	■ Anti-Protein Gene Product 9.5
AB5898	■ Anti-Protein Gene Product 9.5
AB5925	■ Anti-Protein Gene Product 9.5
AB5937	■ Anti-Ubiquitin Carboxyl-Terminal Hydrolase L1, a.a. 61-78 of hUCH-L1
14-855	■ Ubiquitin C-terminal hydrolase L1 (UCH-L1)
14-856	■ Ubiquitin C-terminal hydrolase L3 (UCH-L3)

RELATED PRODUCTS (non-specific)

cat #	description
IPVH00010	■ Immobilon-P 26.5 cm x 3.75 m Roll PVDF 0.45 µm
IPFL00010	■ Immobilon-FL 26.5 cm x 3.75 m Roll PVDF 0.45 µm
IPVH07850	■ Immobilon-P 7 x 8.4 cm PVDF 0.45 mm (sheet) 50/pk
ISEQ00010	■ Immobilon-P SQ 26.5 cm x 3.75 m 1 roll PVDF 0.2 µm
ISEQ07850	■ Immobilon-P 7 x 8.4 cm PVDF 0.2 mm (sheet) 50/pk
IPFL07810	■ Immobilon-FL 7 x 8.4 cm PVDF 0.45 mm (sheet) 10/pk
WBKLS0100	■ Immobilon Western Chemilum HRP Substrate 100 mL
17-373	■ Spray & Glow™ ECL WB Detection System 1 ea
2060	■ Re-Blot Western Blot Recycling Kit
2500	■ Re-Blot Plus Western Blot Recycling Kit
B2080-175GM	■ Blot Quick Blocker Membrane Blocking Agent 175G

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