Product Datasheet

UCH-L1/PGP9.5 Antibody (31A3)

NB600-1160

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

Reviews: 1  Publications: 8

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB600-1160

Updated 8/18/2016 v.20.1
**Product Information**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>Concentration</td>
<td>Please see the vial label for concentration. If unlisted please contact technical services.</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at 4C. Do not freeze.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Monoclonal</td>
</tr>
<tr>
<td>Clone</td>
<td>31A3</td>
</tr>
<tr>
<td>Preservative</td>
<td>0.05% Sodium Azide</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG1 Kappa</td>
</tr>
<tr>
<td>Purity</td>
<td>Protein A or G purified</td>
</tr>
<tr>
<td>Buffer</td>
<td>10mM PBS with 0.05% BSA.</td>
</tr>
<tr>
<td>Target Molecular Weight</td>
<td>25 kDa</td>
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</table>

**Product Description**

**Host**
- Mouse

**Gene ID**
- 7345

**Gene Symbol**
- UCHL1

**Species**
- Human, Mouse, Rat, Porcine, Bovine

**Marker**
- pan-Neuronal Marker

**Specificity/Sensitivity**
- This MAb reacts with a protein of 20-30kDa, identified as PGP9.5, also known as ubiquitin carboxyl-terminal hydrolase-1 (UchL1). Initially, PGP9.5 expression in normal tissues was reported in neurons and neuroendocrine cells but later it was found in distal renal tubular epithelium, spermatogonia, Leydig cells, oocytes, melanocytes, prostatic secretory epithelium, ejaculatory duct cells, epididymis, mammary epithelial cells, Merkel cells, and dermal fibroblasts. Furthermore, immunostaining for PGP9.5 has been shown in a wide variety of mesenchymal neoplasms as well. A mutation in PGP9.5 gene is believed to cause a form of Parkinson's disease.

**Immunogen**
- Native UchL1 (PGP9.5) protein from brain was used as immunogen to generate the antibody (Day & Thompson, 1986).

**Product Application Details**

**Applications**
- Western Blot, Simple Western, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin

**Recommended Dilutions**
- Western Blot 0.5-1ug/ml, Simple Western 10 ug/ml, ELISA 1-5ug/ml for coating, Immunohistochemistry 0.5-1.0ug/ml, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin 0.5-1.0ug/ml, Immunohistochemistry-Frozen 0.5-1.0ug/ml
**Application Notes**

Human Chromosome Location: 4p13 Fixation in 95% ethanol/5% acetic acid for 2-3 hours prior to paraffin embedding is recommended. Specimens which have not been fixed in acetic acid/alcohol require pre-treatment with citrate buffer: for example, unmask of the target epitope by boiling the tissue sections in 10mM citrate buffer, pH 6.0, for 10 min followed by cooling at room temp for 20 min. This antibody has been reported to work in IHC-Frozen as reported in the literature (Bottner et al. Drew et al.) and (Sugimoto et al. J Hyperten). In Simple Western only 10-15 μL of the recommended dilution is used per data point. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

**Images**

- **Western Blot:** PGP9.5 / UCHL-1 Antibody (31A3) [NB600-1160] - analysis of UchL1 in 1) human, 2) mouse and 3) rat brain lysate using UchL1 antibody at 1 μg/ml. goat anti-mouse Ig HRP secondary antibody and ECL substrate solution were used for this test.

- **Immunocytochemistry/Immunofluorescence:** PGP9.5 / UCHL-1 Antibody (31A3) [NB600-1160] - analysis of PGP9.5 in rat mesenteric artery using anti-PGP9.5 antibody. Image from verified customer review.

- **Immunohistochemistry-Paraffin:** PGP9.5 / UCHL-1 Antibody (31A3) [NB600-1160] - Formalin-fixed, paraffin-embedded human brain stained with UchL1 antibody (PGP9.5) (1:500), peroxidase-conjugate and DAB chromogen. Staining seen in cytoplasm, ER and membrane. Fixation in 95% ethanol/5% acetic acid for 2-3 hours prior to paraffin embedding is recommended. Specimens which have not been fixed in acetic acid/alcohol require pre-treatment with citrate buffer: for example, unmask of the target epitope by boiling the tissue sections in 10mM citrate buffer, pH 6.0, for 10 min followed by cooling at room temp for 20 min.
Simple Western: PGP9.5 / UCHL-1 Antibody (31A3) [NB600-1160] - Simple Western lane view shows a specific band for PGP9.5 / UCHL-1 in 0.2 mg/ml of h. Cerebellum (left) and IMR-32 (right) lysate(s). This experiment was performed under reducing conditions using the 12-230 kDa separation system.

Simple Western: PGP9.5 / UCHL-1 Antibody (31A3) [NB600-1160] - Electropherogram images of the corresponding Simple Western lane. PGP9.5 / UCHL-1 antibody was used at 10 ug/ml dilution of h. Cerebellum and IMR-32 lysates(s) respectively.
### Publications


**Yi YJ, Manandhar G, Sutovsky M et al.** Ubiquitin C-terminal hydrolase-activity is involved in sperm acrosomal function and anti-polyspermy defense during porcine fertilization. Biol Reprod. 2007 Nov [PMID: 17671268] (WB, Mouse)

**Sugimoto K, Kojima K, Baba M, Yasujima M.** Olmesartan ameliorates peripheral nerve dysfunction in Zucker diabetic fatty rats. J Hypertens. 2011 Jul [PMID: 21602711] (IHC-Fr, Rat)

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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