Datasheet: 7863-1004

Description: MOUSE ANTI HUMAN PROTEIN GENE PRODUCT 9.5
Specificity: PROTEIN GENE PRODUCT 9.5
Other names: NEUROSCIENCE, PGP 9.5, PGP9.5, UCH L1, UCHL1
Format: Purified
Product Type: Monoclonal Antibody
Clone: 31A3
Isotype: IgG1
Quantity: 0.2 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immunohistology - Paraffin (1)</td>
<td>•</td>
<td></td>
<td></td>
<td>1/100 - 1/400</td>
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<tr>
<td>ELISA</td>
<td>•</td>
<td></td>
<td></td>
<td>1/500 - 1/2000</td>
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<tr>
<td>Western Blotting</td>
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Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

(1) This antibody is suitable for use on paraffin embedded tissue sections. We do however recommend fixation in 95% ethanol/5% acetic acid for 2-3 hours prior to paraffin embedding. Specimens which have not been fixed in acetic acid/alcohol will require pretreatment using the microwave-citrate buffer method.

Target Species

Human

Species Cross Reactivity

Reacts with: Rat, Rabbit
Does not react with: Guinea Pig

N.B. Antibody reactivity and working conditions may vary between species.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein A

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations

1mg/ml
Immunogen
Native, from brain

External Database Links
UniProt: P09936
Related reagents
Entrez Gene: 7345 UCHL1 Related reagents

Specificity
Mouse anti Human Protein Gene Product 9.5 antibody, clone 31A3 recognizes protein gene product 9.5 (PGP9.5), a ubiquitin hydrolase which is widely expressed in neuronal tissues and represents 1-2% of total soluble brain proteins. PGP9.5, also known as ubiquitin C-terminal hydrolase 1 (UCHL-1), is involved in the regulation of the ubiquitin pathway.

Mouse anti Human Protein Gene Product 9.5 antibody, clone 31A3 stains neuronal cell bodies and axons in the CNS and periphery, small nerve fibres in peripheral tissues, neuroendocrine cells in the pituitary, thyroid, pancreas and tumours of the DNES.

Clones 31A3 and 13C4 each recognise a different epitope towards the N-terminus of the protein. Mouse anti Human Protein Gene Product 9.5 antibody, clone 31A3 also recognizes PGP9.5 in other species, including rat and rabbit but evidence suggests it does not bind to PGP9.5 in guinea pigs (Wilson et al. 1988). Mouse anti Human Protein Gene Product 9.5 antibody, clone 31A3 has been used successfully as a capture reagent with clone 13C4 as a detection reagent in a sandwich ELISA to evaluate contamination of processed meat samples with neuronal tissue (Gaunitz et al. 2009).

References

Storage

Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Health And Safety Information


Regulatory

For research purposes only
Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)  RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)  Alk. Phos., HRP
Goat Anti Mouse IgG (H/L) (STAR117...)  Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)  FITC
Goat Anti Mouse IgG (STAR77...)  HRP
Rabbit Anti Mouse IgG (STAR12...)  RPE
Goat Anti Mouse IgG (Fc) (STAR120...)  FITC, HRP
Rabbit Anti Mouse IgG (STAR8...)  DyLight®800
Goat Anti Mouse IgG (STAR70...)  FITC
Human Anti Mouse IgG1 (HCA036...)  HRP
Rabbit Anti Mouse IgG (STAR13...)  HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)