

Datasheet: VMA00865

BATCH NUMBER 100004564

Description:	MOUSE ANTI NICASTRIN
Specificity:	NICASTRIN
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	CD01/3H8
Isotype:	IgG2b
Quantity:	100 µl

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.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	■			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species	Human
Product Form	Purified IgG - Liquid
Preparation	Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> -derived recombinant protein of amino acids 34-669 of human nicastrin

**External Database
Links**

UniProt:

[Q92542](#)

[Related reagents](#)

Entrez Gene:

[23385](#)

NCSTN

[Related reagents](#)

Synonyms

KIAA0253

Fusion Partners

Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line

Specificity

Mouse anti nicastrin antibody recognizes nicastrin, also known as NCT.

Nicastrin is the largest component of the gamma secretase complex, a complex that functions as a protease within the lipid bilayer to release secreted products. The gamma secretase complex is considered to be the "proteasome of the membrane" ([Wolfe 2019](#)). Nicastrin is essential for substrate recognition by gamma secretase, and has been termed the "gatekeeper" of the complex, physically limiting access to the catalytic activity of the protease and preventing proteins from being cut inappropriately ([De Strooper, 2005](#); [Urban, 2016](#)). Appropriate proteolysis is relevant for Alzheimer's Disease, and continuous inhibition of nicastrin in the forebrain has been shown to lead no neurodegenerative features that resemble the neuron loss on Alzheimer's Disease ([Ren et al. 2019](#)). Nicastrin is overexpressed in breast cancer and relates to worse overall survival in a subset of patients. Inhibition of nicastrin has been suggested as a therapeutic goal in breast cancer ([Lombardo et al. 2012](#)).

Western Blotting

Mouse anti nicastrin antibody detects a band of approximately 112 and 127 kDa in HEK293 cell lysates

Storage

Store undiluted at -20°C, avoiding repeated freeze thaw cycles

Guarantee

12 months from date of despatch

Acknowledgements

PrecisionAb is a trademark of Bio-Rad Laboratories

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/VMA00865>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M412809:221116'

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