

# Product Datasheet

## alpha-Internexin Antibody (2E3) - BSA Free **NB300-140-0.1ml**

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NB300-140-0.1ml**

alpha-Internexin Antibody (2E3) - BSA Free

**Product Information**

<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	2E3
<b>Preservative</b>	0.035% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Affinity purified
<b>Buffer</b>	50% PBS, 50% Glycerol
<b>Target Molecular Weight</b>	66 kDa

**Product Description**

<b>Description</b>	Novus Biologicals Mouse alpha-Internexin Antibody (2E3) - BSA Free (NB300-140) is a monoclonal antibody validated for use in IHC, WB, ICC/IF and Simple Western. Anti-alpha-Internexin Antibody: Cited in 34 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	9118
<b>Gene Symbol</b>	INA
<b>Species</b>	Human, Mouse, Rat, Porcine, Bovine
<b>Reactivity Notes</b>	Porcine reported in scientific literature (PMID: 12197769).
<b>Marker</b>	Immature Neuronal Marker
<b>Immunogen</b>	Purified recombinant rat alpha Internexin expressed in and purified from E. coli [UniProt# P23565]

**Product Application Details**

<b>Applications</b>	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:10000, Simple Western 1:200, Immunohistochemistry 1:5000, Immunocytochemistry/ Immunofluorescence 1:5000, Immunohistochemistry-Paraffin 1:5000

**Application Notes**

This alpha Internexin antibody is useful for Immunohistochemistry paraffin embedded sections, Immunocytochemistry/Immunofluorescence and Western blot. This antibody can be used on formalin-fixed cells in tissue culture and cryostat sections. A 66 kDa band can be seen in Western blotting. The epitope recognized by the 2E3 clone is in the C-terminal non-helical extension of the protein and is unusually resistant to aldehyde fixation, so that this antibody is ideal for studies of formalin-fixed paraffin-embedded histological sections.

In Simple Western only 10 - 15  $\mu$ L of the recommended dilution is used per data point.

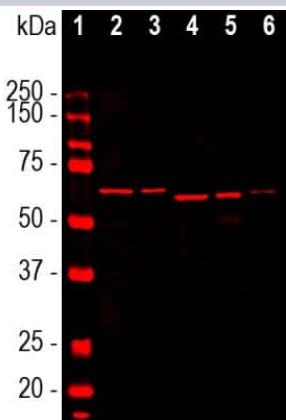
See [Simple Western Antibody Database](#) for Simple Western validation: Tested in SH-SY5Y lysate, separated by Size, antibody dilution of 1:200, apparent MW was 140 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

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.

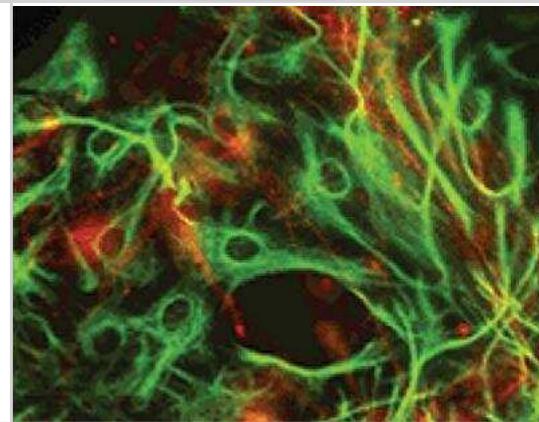


## Images

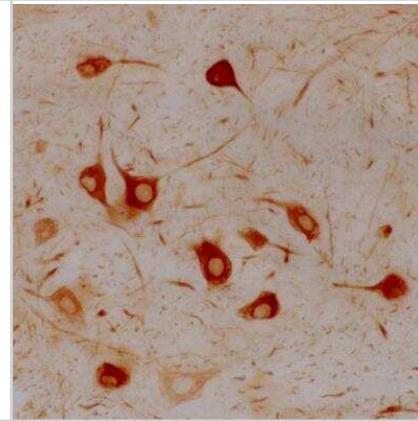
Western Blot: alpha-Internexin Antibody (2E3) [NB300-140] - Analysis of different tissue lysates using alpha-Internexin, dilution 1:10000 (Red): [1] protein standard, [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, and [6] cow spinal cord lysate. The antibody reveals the alpha-Internexin protein with an apparent molecular weight of 64-66kDa, with some variability across species.



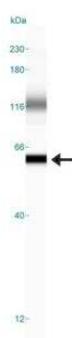
Immunocytochemistry/Immunofluorescence: alpha-Internexin Antibody (2E3) [NB300-140] - Hippocampal neurons in tissue culture with neurofilament alpha internexin (red), using NB300-140 and GFAP (green), using NB300-141.



Immunohistochemistry: alpha-Internexin Antibody (2E3) [NB300-140] - Section of rat facial nucleus 7 days following axotomy. These neurons are capable of regenerating their axons and also, concomitant with regeneration, strongly upregulate alpha-Internexin in their perikarya. Other central neurons which are not able to regenerate their axons do not upregulate this protein after axotomy and untreated facial neurons normally show only very low levels of alpha-Internexin. Both findings suggest that alpha-Internexin has a role in axonal regeneration.



Simple Western: alpha-Internexin Antibody (2E3) [NB300-140] - Simple Western lane view shows a specific band for alpha Internexin in 0.5 mg/ml of SH-SY5Y lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



## Publications

Johnson AK, McCurdy VJ, Gray-Edwards HL et al. Life-Limiting Peripheral Organ Dysfunction in Feline Sandhoff Disease Emerges after Effective CNS Gene Therapy Annals of neurology 2023-08-01 [PMID: 37526361]

Forest F, Masliah-Planchon J, Berger C et al. High-grade childhood intra-parenchymal brain tumor clustering with ATRT and expanding the cancer spectrum related to inherited SMARCE1 truncating variations Acta neuropathologica communications 2022-02-14 [PMID: 35164878] (IF/IHC, Human)

Bielle F, Di Stefano AL, Meyronnet D et al. Diffuse gliomas with FGFR3-TACC3 fusion have characteristic histopathological and molecular features. Brain Pathol. 2017-10-04 [PMID: 28976058] (Human)

Breton Q, Plouhinec H, Prunier-Mirebeau D et al. BRAF-V600E immunohistochemistry in a large series of glial and glial-neuronal tumors. Brain Behav. 2017-03-01 [PMID: 28293477] (IF/IHC, Human)

Bielle F, Ducray F, Mokhtari K et al. Tumor cells with neuronal intermediate progenitor features define a subgroup of 1p/19q co-deleted anaplastic gliomas. Brain Pathol 2016-08-20 [PMID: 27543943]

Matsumura N, Nobusawa S, Ikota H et al. Coexpression of cyclin D1 and alpha-internexin in oligodendroglial tumors. Brain Tumor Pathol. 2015-08-02 [PMID: 26233522] (IHC-P, Human)

Nagaishi M, Yokoo H, Nobusawa S et al. Localized overexpression of alpha-internexin within nodules in multinodular and vacuolating neuronal tumors Neuropathology. 2015-06-14 [PMID: 26073706] (IHC-P, Human)

Figarella-Branger D, Mokhtari K, Dehais C et al. Mitotic index, microvascular proliferation, and necrosis define 3 groups of 1p/19q codeleted anaplastic oligodendroglomas associated with different genomic alterations. Neuro-oncology 2014-04-09 [PMID: 24723566] (IHC-P, Human)

Nagaishi M, Suzuki A, Nobusawa S et al. Alpha-internexin and altered CIC expression as a supportive diagnostic marker for oligodendroglial tumors with the 1p/19q co-deletion. Brain Tumor Pathol. 2013-11-07 [PMID: 24197863] (IHC-P, Human)

Reyes-Botero G, Giry M, Mokhtari K et al. Molecular analysis of diffuse intrinsic brainstem gliomas in adults. J Neurooncol. 2013-11-17 [PMID: 24242757] (IHC-P, Human)

San Millan B, Kaci R, Polivka M et al. Gliomatosis cerebri: A biopsy and autopsy case report Ann Pathol. 2010-02-01 [PMID: 20223351] (IF/IHC, Human)

Mokhtari K, Ducray F, Kros J et al. Alpha-internexin expression predicts outcome in anaplastic oligodendroglial tumors and may positively impact the efficacy of chemotherapy: European organization for research and treatment of cancer trial 26951 Cancer 2011-07-01 [PMID: 21246521] (IHC-P, Human)

More publications at <http://www.novusbio.com/NB300-140>



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## Products Related to NB300-140-0.1ml

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
H00009118-P01-10ug	Recombinant Human alpha-Internexin GST (N-Term) Protein

## Limitations

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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