# Mouse alpha-Internexin/NF 66 Monoclonal Antibody | anti-NF66 antibody

alpha-Internexin/NF 66

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA76626** | **Mouse** | **Human, Mouse, Rat, Cat** | **Immunofluorescence, Immunohistochemistry, Western Blot, Immunocytochemistry** |

## PRODUCT SYNONYMS

alpha-Internexin/NF 66; Monoclonal Antibody; anti-NF66 antibody

## PRODUCT SPECIFICATIONS

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|---|---|
| **Host** | Mouse |
| **Reactivity** | Human, Mouse, Rat, Cat |
| **Clonality** | Monoclonal |
| **Isotype** | Mouse IgG |
| **Form/Format** | Purified liquid antibody in PBS, 50% glycerol plus 5mM of Sodium Azide. |
| **Concentration** | 1mg/ml (varies by lot) |
| **Applicable Applications for anti-NF66 antibody** | IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ICC (Immunocytochemistry) |
| **Immunogen** | Purified recombinant rat alpha-internexin expressed in and purified from E Coli. |
| **Preparation and Storage** | Antibody can also be aliquotted and stored frozen at -20 degree C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2-8 degree C for 1 month without detectable loss ofactivity. Avoid repeated freeze-thaw cycles. |

## IMAGES

**WB (Western Blot)**
Western blot analysis of different tissue lysates using mouse mAb to alpha-internexin dilution 1:10,000 in green: [1] protein standard, [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] pig spinal cord and [7] cow spinal cord.

**IF (Immunofluorescence)**
Immunofluorescent analysis of rat cerebellum section stained with mouse mAb to alpha-internexin, MO22102, dilution 1:5,000 in green, and costained with chicken pAb to calretinin 1:2,000 in red. Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45uM, and free-floating sections were stained with the above antibodies.

## ADDITIONAL INFORMATION

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| **Related Product Information for anti-NF66 antibody** | alpha-internexin is a Class IV intermediate filament protein originally discovered by two different groups of researchers as it copurifies with NF-L, NF-M and NF-H, the then better known major neurofilament "triplet" subunits. It is expressed only in neurons and in large amounts early in neuronal development, but is down-regulated in many neurons as development proceeds. Some neurons express alpha-internexin in the absence of NF-L, NF-M and NF-H, though most mature neurons express all four proteins. This alpha-internexin antibody has been shown, in peer reviewed publications, to reveal the upregulation of alpha-internexin in facial neurons following experimental axotomy followed by down regulation on axonal regeneration. It is also the standard reagent used to identify and classify patients with neurofilament inclusion body disease, a specific form of frontotemporal lobar dementia. Finally, it has been used to confirm the presence of circulating antibodies to alpha-internexin in the blood of certain patients with endocrine autoimmunity. |

## NCBI AND UNIPROT INFORMATION

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| **NCBI GI #** | 14249342 |
| **NCBI GeneID** | 9118 |
| **NCBI Accession #** | NP_116116.1 |
| **NCBI GenBank Nucleotide #** | NM_032727.3 |
| **UniProt Accession #** | Q16352; Q9BRC5; B1AQK0 |
| **Molecular Weight** | 55,391 Da |
| **NCBI Official Full Name** | alpha-internexin |
| **NCBI Official Synonym Full Names** | internexin neuronal intermediate filament protein, alpha |
| **NCBI Official Symbol** | INA |
| **NCBI Official Synonym Symbols** | NEF5; NF-66; TXBP-1 |
| **NCBI Protein Information** | alpha-internexin; alpha-Inx; neurofilament 5 (66kD); 66 kDa neurofilament protein; neurofilament-66, tax-binding protein |
| **UniProt Protein Name** | Alpha-internexin |
| **UniProt Gene Name** | **INA** |
| **UniProt Synonym Gene Names** | NEF5; Alpha-Inx; NF-66 |
| **UniProt Entry Name** | AINX_HUMAN |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/alpha-internexin-nf-66-antibody-immunofluorescence-immunohistochemistry-western-blot-immunocytochemistry-elisa/76626