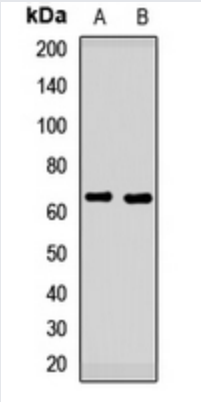
# Alpha-Internexin (INA) Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | Alpha-internexin (INA), Polyclonal Antibody |
| **Full Product Name** | Rabbit anti-Alpha-internexin Antibody |
| **Product Gene Name** | anti-INA antibody |
| **Product Synonym Names** | NEF5; Alpha-internexin; Alpha-Inx; 66 kDa neurofilament protein; NF-66; Neurofilament-66; Neurofilament 5 |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse |
| **Form/Format** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Purity/Purification** | The antibody was purified by immunogen affinity chromatography. |
| **Concentration** | 1mg/mL (lot specific) |
| **Preparation and Storage** | Store at -20 degree C. Avoid repeated freeze/thaw cycles. |
| **Molecular Weight** | 55,391 Da |
| **Chromosome Location** | Chromosome: 10; NC_000010.10 (105036920..105050108). Location: 10q24.33 |
| **OMIM** | 605338 |
| **3D Structure** | ModBase 3D Structure for Q16352 |
| **Immunogen** | KLH-conjugated synthetic peptide of human Alpha-internexin |
| **Product Categories/Family for anti-INA antibody** | Primary antibodies |
| **ISO Certification** | Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory. |
| **Applications Tested/Suitable for anti-INA antibody** | Western Blot (WB), Immunohistochemistry (IHC) |
| **Application Notes for anti-INA antibody** | WB: 1:500-1:2000<br>IHC: 1:50-1:200 |
| **Related Product Information for anti-INA antibody** | MBS4508113 is an antibody targeting INA. Also known as Rabbit anti-Alpha-internexin Antibody. Reactive in Human, Mouse. Host: Rabbit. |
| **Other Notes** | Small volumes of anti-INA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Western Blot (WB) of anti-INA antibody**
Western blot analysis of Alpha-internexin expression in Jurkat (A), mouse brain (B) whole cell lysates.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for INA. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 14249342 |
| **NCBI GeneID** | 9118 |
| **NCBI Accession #** | NP_116116.1 |
| **UniProt Primary Accession #** | Q16352 |
| **UniProt Secondary Accession #** | P46660 |
| **UniProt Related Accession #** | Q16352 |
| **GenBank Nucleotide #** | NM_032727.3 |
| **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 |
| **UniProt Protein Name** | Alpha-internexin |
| **UniProt Synonym Protein Names** | 66 kDa neurofilament protein; NF-66; Neurofilament-66; Neurofilament 5 |
| **Protein Family** | Alpha-internexin |
| **UniProt Gene Name** | INA |
| **UniProt Synonym Gene Names** | NEF5; Alpha-Inx; NF-66 |
| **UniProt Entry Name** | AINX_HUMAN |
| **NCBI Protein Information** | alpha-internexin; alpha-Inx; neurofilament 5 (66kD); 66 kDa neurofilament protein; neurofilament-66, tax-binding protein |
| **NCBI Summary for INA** | Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and they functionally maintain the neuronal caliber. They may also play a role in intracellular transport to axons and dendrites. This gene is a member of the intermediate filament family and is involved in the morphogenesis of neurons. [provided by RefSeq, Jun 2009] |

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| **UniProt Comments for INA** | INA: Class-IV neuronal intermediate filament that is able to self-assemble. It is involved in the morphogenesis of neurons. It may form an independent structural network without the involvement of other neurofilaments or it may cooperate with NF-L to form the filamentous backbone to which NF-M and NF-H attach to form the cross-bridges. Belongs to the intermediate filament family.<br><br>Protein type: Cytoskeletal<br><br>Chromosomal Location of Human Ortholog: 10q24.33<br><br>Cellular Component: nucleoplasm; extracellular space; intermediate filament cytoskeleton; nuclear membrane; neurofilament<br><br>Molecular Function: structural constituent of cytoskeleton<br><br>Biological Process: substantia nigra development; neurofilament cytoskeleton organization and biogenesis; cell differentiation |
| **Research Articles on INA** | **1.** High INA expression is associated with grade II gliomas. |
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