

Datasheet for ABIN361343

anti-INA antibody

3 Images

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	INA
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This INA antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant rat alpha-internexin expressed in and purified from E. coli
Clone:	1D2
Isotype:	IgG1
Specificity:	Specific for the ~66k alpha Internexin protein. Can be used on formalin-fixed cells in tissue culture, cryostat sections, and Western blotting. The epitope recognized by the ID2 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 paraffin embedded formalin fixed histological sections.
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Predicted Reactivity:	most mammals
Purification:	Protein G purified culture supernatant

Target Details

Target:	INA
Alternative Name:	INA (INA Products)
Background:	<p>Alpha-internexin is a Class IV intermediate filament originally discovered as it co-purifies with other neurofilament subunits (1). Alpha-internexin is related to but distinct from the better known neurofilament triplet proteins, NF-L, NF-M and NF-H, having similar protein sequence motifs and a similar intron organization. It is expressed only in neurons and in large amounts early in neuronal development, but is down-regulated in many neurons as development proceeds. Many classes of mature neurons contain alpha-internexin in addition to NF-L, NF-M and NF-H. In some mature neurons alpha-internexin is the only neurofilament subunit expressed. Antibodies to alpha-internexin are therefore unique probes to study and classify neuronal types and follow their processes in sections and in tissue culture. In addition, recent studies show a marked up-regulation of alpha-internexin during neuronal regeneration (2). The use of antibodies to this protein in the study of brain tumors has not been examined to date, but is likely to be of interest. Recently Cairns et al. used this antibody to show that alpha-internexin is an abundant component of the inclusions of neurofilament inclusion body disease (NFID), a serious human neurodegenerative disorder (3,4). The antibody was also used to confirm the presence of circulating auto-antibodies to alpha-internexin in the sera of some patients with endocrine autoimmunity, as well as in some normal individuals (5). Anti-alpha Internexin Western blot of rat cortex lysate showing specific immunolabeling of the ~ 66k alpha internexin protein.</p>
Molecular Weight:	~66 kDa
Gene ID:	24503
UniProt:	P23565

Application Details

Application Notes:	Recommended Dilution: WB: 1:2,000 IF: 1:250 IHC: 1:1,000 Quality Control: Western blots performed on each lot.
Restrictions:	For Research Use only

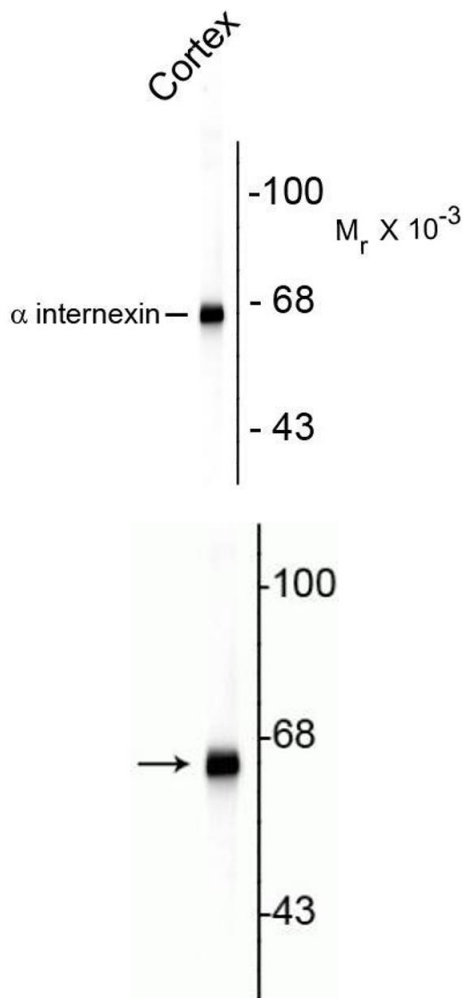
Handling

Format:	Liquid
Buffer:	total IgG fraction + 10 mM Sodium azide.

Handling

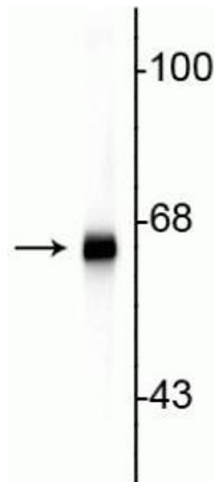
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Images



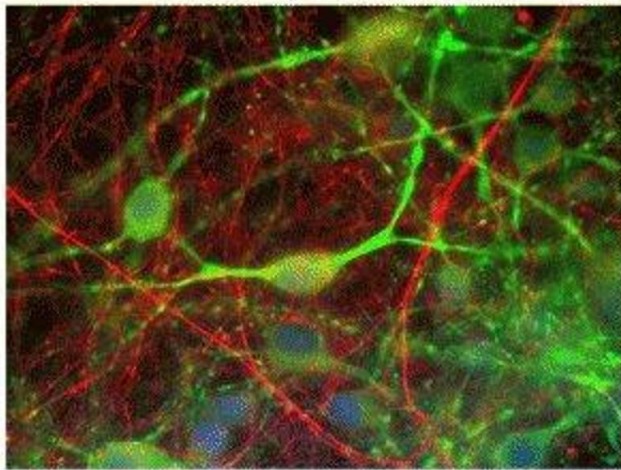
Western Blotting

Image 1. Western blots of rat cortex lysate showing specific immunolabeling of the ~ 66k alpha internexin protein.



Western Blotting

Image 2. Western blot of rat cortex lysate showing specific immunolabeling of the ~ 66 kDa alpha internexin protein.



Immunostaining

Image 3. Immunostaining of cultured rat CNS cells showing specific labeling of alpha-interneuron in neuronal processes in red and microtubule associated protein 2 (ABIN361345) in green.