

Datasheet for ABIN361344

**anti-INA antibody****3** Images[Go to Product page](#)

## Overview

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

## Product Details

Immunogen:	Recombinant rat alpha-internexin expressed in and purified from E. coli
Specificity:	Specific for the ~66k alpha Internexin protein. Minor bands at ~150k are probably covalent dimers and bands at ~50k represent alpha-internexin breakdown products.
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Predicted Reactivity:	most mammals
Purification:	Total IgY fraction

## Target Details

Target:	INA
Alternative Name:	INA ( <a href="#">INA Products</a> )
Background:	Alpha-internexin is a Class IV intermediate filament originally discovered as it co-purifies with

## Target Details

other neurofilament subunits (1). Alpha-interneixin 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-interneixin in addition to NF-L, NF-M and NF-H. In some mature neurons alpha-interneixin is the only neurofilament subunit expressed. Antibodies to alpha-interneixin 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-interneixin 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-interneixin 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-interneixin 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 interneixin protein.

Molecular Weight:	66 kDa
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Gene ID:	24503
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UniProt:	<a href="#">P23565</a>
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## Application Details

Application Notes:	Recommended Dilution: WB: 1:5,000 IF: 1:500 Quality Control: Western blots performed on each lot.
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Restrictions:	For Research Use only
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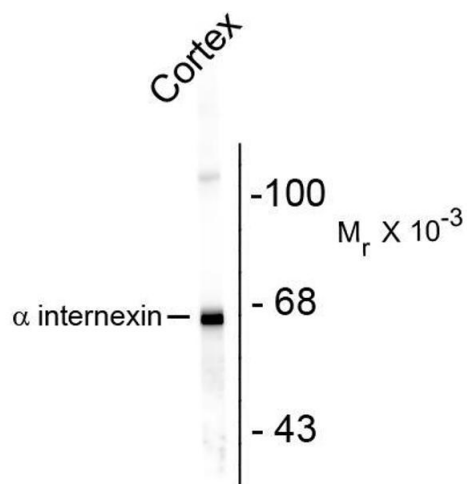
## Handling

Format:	Liquid
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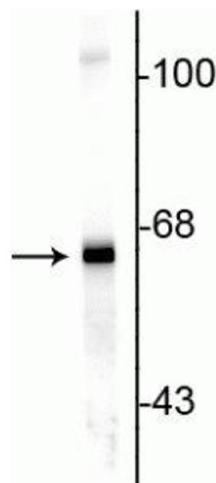
Buffer:	total IgY fraction in PBS + 10 mM Sodium azide.
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Preservative:	Sodium azide
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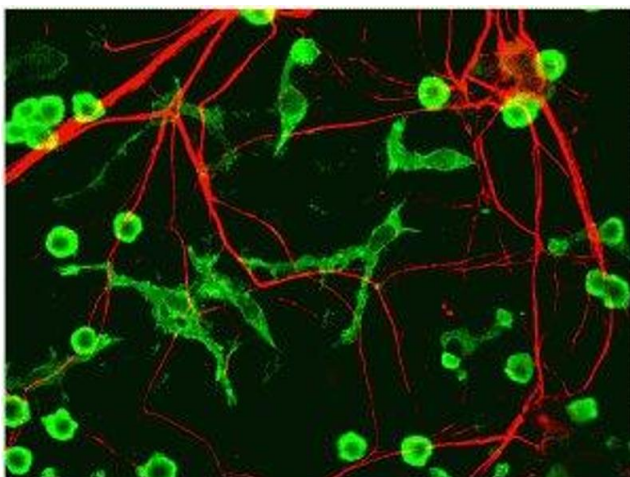
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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**Western Blotting**

**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 neurons and glia showing specific labeling of neuronal processes (red) using our alpha-internexin antibody and microglia (green) with a coronin 1a antibody.