Anti-Alpha Internexin/INA Antibody

Catalog Number: *PB1035*

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Basic Information

Product Name	Anti-Alpha Internexin/INA Antibody
Gene Name	INA
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, IF, ICC/IF, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human Alpha Internexin recombinant protein (Position: A71-R161). Human Alpha Internexin shares 98.9% amino acid (aa) sequence identity with both mouse and rat Alpha Internexin.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	62-66 kDa
Dilution Ratios	Western blot (WB): 1:1000-5000 Immunohistochemistry (IHC): 1:100-500 Immunofluorescence (IF): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Alpha-Internexin (INA; also NF-66) is a 66 kDa member of the intermediate filament (IF) protein family. The protein was originally purified from rat optic nerve and spinal cord. And the protein copurifies with other neurofilament subunits, as it was originally discovered, however in some mature neurons it can be the only neurofilament expressed. The protein is present in developing neuroblasts and in the Central Nervous System of adults. Meanwhile, the protein is a major

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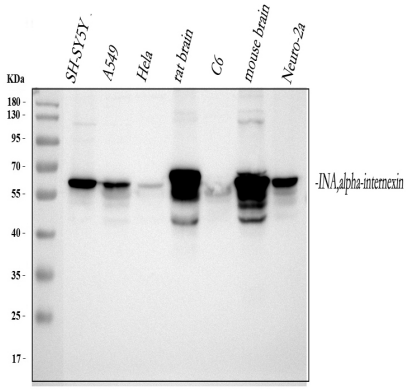
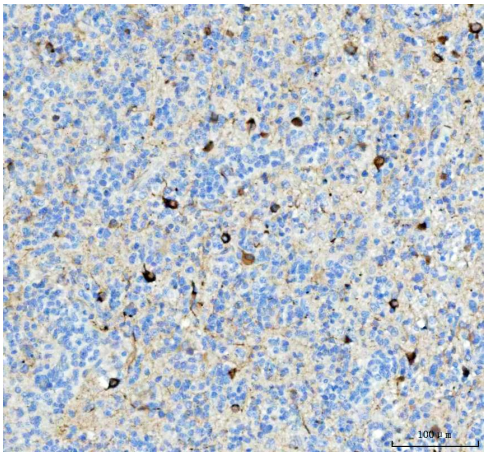
component of the intermediate filament network in small interneurons and cerebellar granule cells, where it is present in the parallel fibers.

Selected Validation Data



Western blot analysis of Alpha Internexin/INA using anti-Alpha Internexin/INA antibody (PB1035). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human SH-SY5Y whole cell lysates,
Lane 2: human A549 whole cell lysates,
Lane 3: human Hela whole cell lysates,
Lane 4: rat brain tissue lysates,
Lane 5: rat C6 whole cell lysates,
Lane 6: mouse brain tissue lysates,
Lane 7: mouse Neuro-2a whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Alpha Internexin/INA antigen affinity purified polyclonal antibody (PB1035) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Alpha Internexin/INA at approximately 62-66 kDa. The expected band size for Alpha Internexin/INA is at 55 kDa.



IHC analysis of Alpha Internexin/INA using anti-Alpha Internexin/INA antibody (PB1035) .
Alpha Internexin/INA was detected in a paraffin-embedded section of human glioma tissue. The tissue section was incubated with rabbit anti-Alpha Internexin/INA Antibody (PB1035) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

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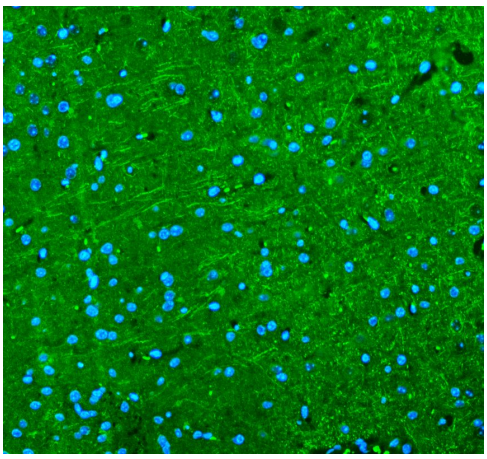
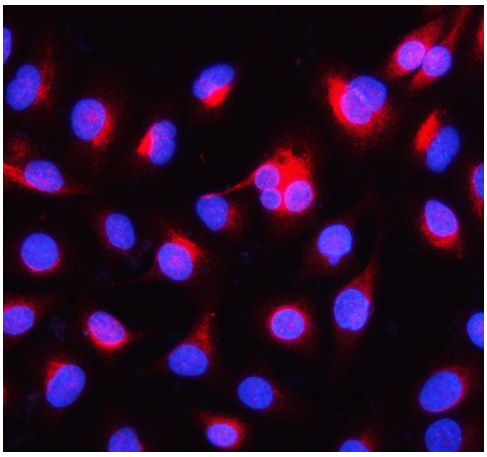
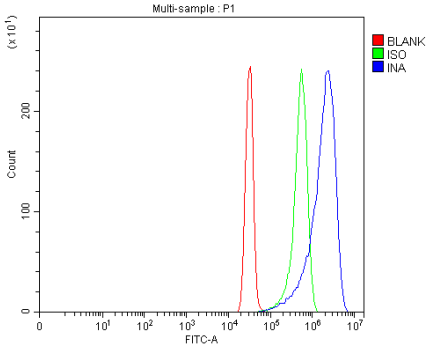


IF analysis of Alpha Internexin/INA using anti-Alpha Internexin/INA antibody (PB1035).
Alpha Internexin/INA was detected in a paraffin-embedded section of mouse brain tissue. The tissue section was incubated with rabbit anti-Alpha Internexin/INA Antibody (PB1035) at a dilution of 1:100. Fluoro488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



ICC/IF analysis of Alpha Internexin/INA using anti-Alpha Internexin/INA antibody (PB1035).
Alpha Internexin/INA was detected in an immunocytochemical section of A549 cells. The section was incubated with rabbit anti-Alpha Internexin/INA Antibody (PB1035) at a dilution of 1:100. Cy3-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog#BA1032) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of SiHa cells using anti-Alpha Internexin/INA antibody (PB1035).
Overlay histogram showing SiHa cells stained with PB1035 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Alpha Internexin/INA Antibody (PB1035, 1:100). Fluoro488 conjugated goat anti-rabbit IgG (BA1127, 1:100) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG (Catalog # BA1045) (1:100) used under the same conditions. Unlabelled sample (Red line) was also used as a

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control.