

ARG10730 anti-NF66 / alpha Internexin antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes NF66 / alpha Internexin
Tested Reactivity	Hu, Ms, Rat, Bov, Hrs, Pig
Predict Reactivity	Chk
Tested Application	ICC/IF, IHC-Fr, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NF66 / alpha Internexin
Species	Rat
Immunogen	Purified recombinant Rat alpha Internexin expressed in and purified from E. coli.
Conjugation	Un-conjugated
Alternate Names	Neurofilament 5; Neurofilament-66; Alpha-Inx; NEF5; NF-66; Alpha-internexin; 66 kDa neurofilament protein; TXBP-1

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:500 - 1:1000
	IHC-Fr	1:500 - 1:1000
	WB	1:10000 - 1:20000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

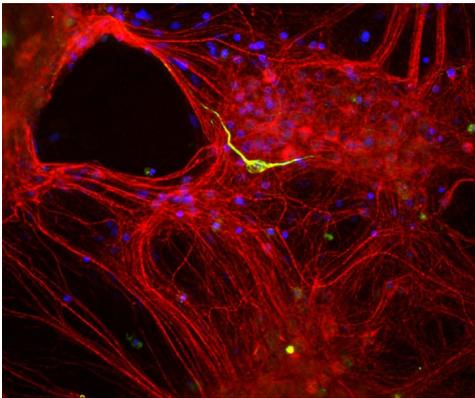
Properties

Form	Liquid
Purification	Unpurified.
Buffer	Serum.
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

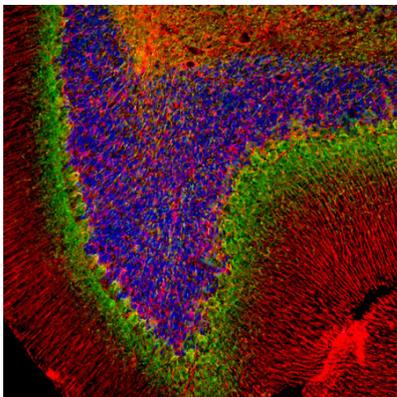
Gene Symbol	Ina
Gene Full Name	internexin neuronal intermediate filament protein, alpha
Background	Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and they functionally maintain the neuronal caliber. 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]
Function	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. [UniProt]
Calculated Mw	55 kDa
PTM	O-glycosylated.

Images



ARG10730 anti-NF66 / alpha Internexin antibody ICC/IF image

Immunocytochemistry: Rat mixed neuron-glia cultures stained with ARG10730 anti-NF66 / alpha Internexin antibody (red) and co-stained with chicken antibody to peripherin (green). The alpha internexin antibody stains numerous axonal and dendritic profiles in these cultures, while peripherin antibody binds to only a subset of neurons.

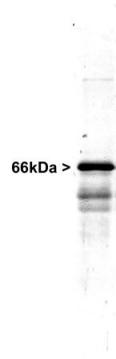


ARG10730 anti-NF66 / alpha Internexin antibody IHC-Fr image

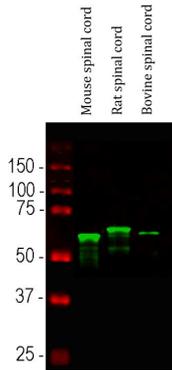
Immunohistochemistry: Frozen section of Rat cerebellum stained with ARG10730 anti-NF66 / alpha Internexin antibody (green) at 1:2000 dilution and costained with [ARG52313](#) anti-GFAP antibody (red) at 1:5000 dilution. DAPI (blue) for nuclear staining. (Sample preparation: Following transcathal perfusion with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45 μ M, and free-floating sections were stained with above antibodies.)

The alpha Internexin antibody selectively stains axons and dendrites of neuronal cells, in particular Purkinje cells and parallel fibers the axons of granule cells. The GFAP antibody labels network of glial cells, such as astrocytes in the granule cell layer and white matter and Bergmann glia in the molecular layer.

ARG10730 anti-NF66 / alpha Internexin antibody WB image



Western blot: Whole Rat spinal cord homogenate stained with ARG10730 anti-NF66 / alpha Internexin antibody at 1:20000 dilution. A prominent band running at ~66 kDa is apparent, as well as smaller lower bands which are apparently degradation products. A minor band at ~150 kDa is also seen, apparently resulting from dimerization of alpha-internexin.



ARG10730 anti-NF66 / alpha Internexin antibody WB image

Western blot: Mouse spinal cord, Rat spinal cord and Bovine spinal cord lysates stained with ARG10730 anti-NF66 / alpha Internexin antibody (green) at 1:10000 dilution.