

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human α -Internexin in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) NF-M or rhVimentin is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 529724
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human α -Internexin Val230-Glu450 Accession # Q16352
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

α -Internexin (α -Inx; also NF-66) is a 66 kDa member of the intermediate filament (IF) protein family. It was the first of two molecules named for its presumed interaction with cytoskeletal proteins. α -Inx is one of four Class IV neuronal IF proteins. It both self-assembles and complexes with NF-L, H and M in select cortical and cerebellar neurons. α -Inx contains one DNA-binding region (aa 10-92), a poly-Glu segment (aa 449-454) and three serine phosphorylation sites (Ser72/335/496). There is one 494 aa alternative splice form that shows multiple short sequence aa substitutions in the first 200 amino acids. Over aa 230-450, human α -Inx shows more than 96% aa identity with mouse, canine and rat α -Inx.

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