Human α-Internexin Antibody

Monoclonal Mouse IgG_1 Clone # 529724

Catalog Number: MAB4844

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	*E. coli*-derived recombinant human α-Internexin Val230-Glu450 Accession # Q16352
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

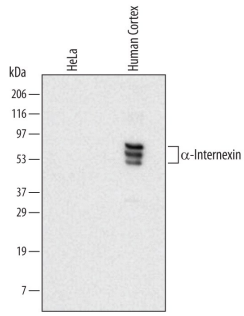
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	Immersion fixed paraffin-embedded sections of human brain (cerebellum)

DATA

Western Blot



Detection of Human α-Internexin by Western Blot. Western blot shows lysates of human cortex tissue. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human α-Internexin Monoclonal Antibody (Catalog # MAB4844) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for α-Internexin at approximately 50-70 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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 that 96% aa identity with mouse, canine and rat α-Inx.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956