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34-1053: Monoclonal Antibody to a-internexin/NF66 (Clone: 2E3)

Clonality :	Monoclonal
Clone Name :	2E3
Application :	WB, IF/ICC, IHC
Reactivity :	Human, Rat, Mouse, Cow
Gene :	INA
Gene ID :	9118
Uniprot ID :	Q16352
Format :	T.C. Sup.
Alternative Name :	66 kDa neurofilament protein,Neurofilament 5
Isotype :	Mouse, IgG1
Immunogen Information :	Purified recombinant rat Alpha -internexin expressed in and purified from E. coli.

Product Info

Amount :	50 µl / 500 µl
Content :	Antibody is supplied as an aliquot of 1 mg/ml of affinity purified antibody or tissue culture supernatant.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

WB: 1:10,000. IF/ICC and IHC: 1:5,000.

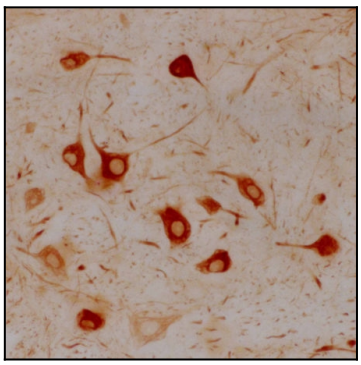

Figure-1: Immunohistochemistry of a section of rat facial nucleus 7 days following axotomy. These neurons are capable of regenerating their axons and also, concomitant with regeneration, strongly upregulate Î±-internexin in their perikarya. Other central neurons which are not able to regenerate their axons do not upregulate this protein after axotomy and untreated facial neurons normally show only very low levels of Î±-internexin. Both findings suggest that Î±-internexin has a role in axonal regeneration.

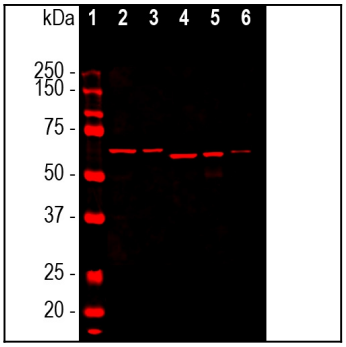

Figure-2: Western blot analysis of different tissue lysates using mouse mAb to Î±-internexin,(34-1053), dilution 1:10,000 in red: [1] protein standard, [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, and [6] cow spinal cord lysate. The (34-1053) antibody reveals the Î±-internexin protein with an apparent molecular weight of 64-66kDa, with some variability across species.