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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, lgG1

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.

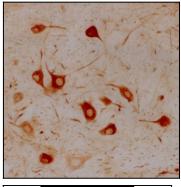


Figure-1: Immunohistochemistry of a section of rat facial nucleus 7 days following axotomy. These neurons are capable of regenerating their axons and also, concomitant with regeneration, strongly upregulate  $\hat{l}\pm$ -internexin in their perikarya. Other central neurons which are not able to regenerate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

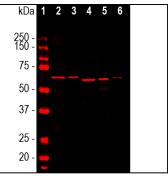


Figure-2: Western blot analysis of different tissue lysates using mouse mAb to  $\hat{1}\pm$ -internexin,(34-1053), dilution 1:10,000 in red: [1] protein standard, [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, and [6] cow spinal cord lysate. The (34-1053) antibody reveals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