



Concentration: 1mg/ml.

a-Internexin/NF 66

Data Sheet

Catalog Number: MO22154 Host: Mouse

Product Type: Mouse Monoclonal IgG Species
Reactivity: Human, Rat, Mouse, and Cat

Immunogen
Sequence:Purified recombinant rat α-internexin
expressed in and purified from E. coli.Format:Purified liquid antibody in PBS, 50%
glycerol plus 5mM of Sodium Azide.

Applications: Immunofluorescent: 1:5,000

Immunocytochemistry: 1:5,000 Immunohistochemistry: 1:5,000

Western Blot: 1:10,000

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

Storage: Antibody can also be aliquotted and stored frozen at -20° C in a manual defrost freezer for six

months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month

without detectable loss of activity. Avoid repeated freeze-thaw cycles.

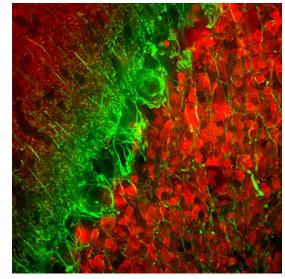
Application Notes

Description/Data:

 α -internexin is a Class IV intermediate filament protein originally discovered by two different groups of researchers as it copurifies with NF-L, NF-M and NF-H, the then better known major neurofilament "triplet" subunits. It is expressed only in neurons and in large amounts early in neuronal development, but is down-regulated in many neurons as development proceeds. Some neurons express α -internexin in the absence of NF-L, NF-M and NF-H, though most mature neurons express all four proteins. This α -internexin antibody has been shown, in peer reviewed publications, to reveal the upregulation of α -internexin in facial neurons following experimental

axotomy followed by down regulation on axonal regeneration. It is also the standard reagent used to identify and classify patients with neurofilament inclusion body disease, a specific form of frontotemporal lobar dementia. Finally, it has been used to confirm the presence of circulating antibodies to α -internexin in the blood of certain patients with endocrine autoimmunity.

Image: Immunofluorescent analysis of rat cerebellum section stained with mouse mAb to α -internexin, MO22102, dilution 1:5,000 in green, and costained with chicken pAb to calretinin 1:2,000 in red. Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45 μ M, and free-floating sections were stained with the above antibodies. The α -internexin antibody selectively stains neuronal processes, in particular parallel fibers, the axons of granule cells. Calretinin antibody stains interneurons predominantly in the molecular layer of the cerebellum.



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