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| Catalog Number: | MO22185 | Host: | Mouse |
| Product Type: | Mouse Monoclonal (IgG1) | Species Reactivity: | Human, Rat |
| Immunogen Sequence: | C-terminal 398 amino acids of human ankyrin 3 expressed in and purified in <i>E. coli</i> | Format: | Purified liquid antibody in 50% PBS, 50% glycerol plus 5mM of Sodium Azide. Concentration: 1mg/ml. |
| Entrez: | 288 | UniProt: | Q12955 |
| Applications: | IF/ICC: 1:1,000 IHC: 1:1,000 WB: 1:1,000-2,000 | | |

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

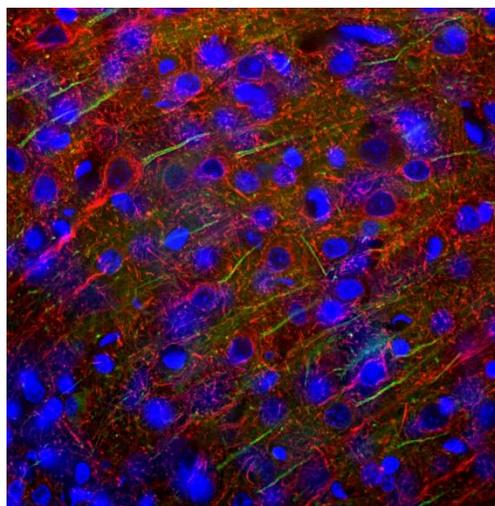
Storage: Antibody can also be aliquotted and stored frozen at -20° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.

Application Notes

Description/Data:

Ankyrin 3, also known as Ankyrin G, is larger than the related Ankyrin 1 and Ankyrin 2. Ankyrin 3 is expressed in the axon initial segment and the nodes of Ranvier in the nervous system. Antibodies against Ankyrin 3 thus can be useful in identifying the regions of axon initial segments and nodes of Ranvier. This antibody was made against the C-terminal 398 amino acid of human isotype 1, and works well on human and rat ankyrin 3 on western blots and section material. However, this antibody does not work on mouse extracts and tissues.

Image: Immunofluorescent analysis of cortex section of rat brain stained with mouse antibody against ankyrin 3 (MO22185), dilution 1:2,000 in green and costained with rabbit antibody against NF-L (RA22104) dilution 1:5,000 in red. The blue is Hoechst staining of nuclear DNA. Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45µM, and free-floating sections were stained with MO22185 and RA22104 antibodies. MO22185 antibody stains the axonal initial segments while RA22104 antibody labels dendrites and axons of neuronal cells.



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