



Catalog Number:	RA22136	Host:	Rabbit
Product Type:	Rabbit Polyclonal	Species Reactivity:	Human, Rat, Mouse
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: 1:2,000-1:5,000 IHC: 1:2,000-1:5,000 WB: 1:1,000-5,000		

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

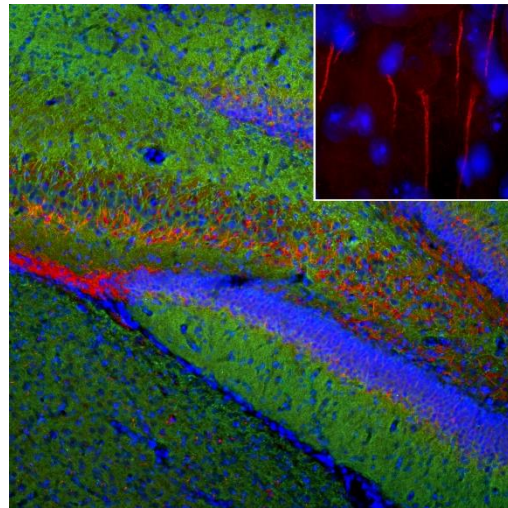
Storage: Antibody can also be aliquotted and stored frozen at -20° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.

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. This antibody works on human rat and immunocytochemistry, immunohistochemistry and Western Blot applications.

Image: *Immunofluorescent analysis of cortex section of rat brain stained with rat antibody against ankyrin 3 (RA22136), dilution 1:1,000 in red and costained with mouse antibody against MAP2 dilution 1:5,000 in green. 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 Ankyrin G and MAP2 antibodies. Ankyrin G antibody stains the axonal initial segments while MAP2 antibody labels MAP2 expressed in perikarya and dendrites of most neurons.*



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