UC Davis/NIH NeuroMab Facility
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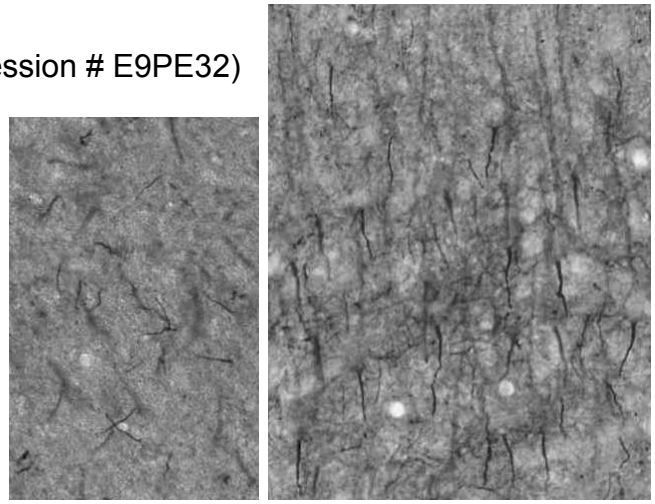
Anti-Ankyrin-G, NeuroMab clone N106/36

Immunogen:
Fusion protein ~1000 amino acids of Ankyrin-G (also known as ANK-3 or ankyrin-3), sequence:

EDAMTGDTDKYLGPQDLKELGDDSLPAEGYMGFSLGARSASLRSFSSDRSYTLNRSSYARDSMMIEELLVPSKEQHLTFTREFDSDSLRHYSWAADTL
DNVNLVSSPIHSGFLVSFMVDARGGSMRGSRHHGMRIIIPPRKCTAPTRITCRLVKRHKLANPPPMVEGEGLASRLVEMGPAGAQFLGPVIVEIPHFGSM
RGKERELIVLRSENGETWKEHQFDSKNEDLTELLNGMDEELDSPEELGKKRICRIITKDFPQYFAVVSRIKQESNQIGPEGGILSSTTVPLVQASFPEGALT
KRIRVGLQAQPVPDEIVKKILGNKATFSPIVTVEPRRRKFHKPITMTIPVPPPSGEGVSNGYKGDTTPNLRLLCSITGGTSPAQWEDITGTTPLTFIKDCVSF
TTNVSARFWLADCHQVLETVGLATQLYRELICVPYMAKFVVFAKMNDPVESSLRCFCMTDDKVDKTLEQQENFEEVARSKDIEVLEGKPIYVDCYGNLA
PLTKGGQQLVFNFYSFKENRLPFSIKIRDTSQEPCGRLSFLKEPKTTKGLPQTAVCNLNITLPAHKKIEKTDRRQSFASLALRKRYSYLTEPGMSPQSPCE
RTDIRMAIVADHLGLSWTELARELNFSVDEINQIRVENPNSLISQSFMLLKKWVTRDGKNATTDALTSVLTKINRIDIVTLLEGPIFDYGNISGTRSFADENNV
FHDPVDDGPPVVTAEDASLEDSKLEDSVPLTEMPEAVDVDESQLENVCLSWQNETSSGNLESCAQARRVTGGLLDRLDDSPDQCRDSITSYLKGEAGK
FEANGSHTEITPEAKTKSYFPESQNDVGKQSTKETLKPKIHGSGHVEEPASPLAAYQKSLEETSKLIIEETKPCVPVSMKKMSRTSPADGKPRLSLHEEEG
SSGSEQKQGEGFKVKTKKEIRHVEKKAH

Human: 92% identity (920/994 amino acids identical, accession # E9PE32)
Mouse: 89% identity (837/936 amino acids identical)
Rat: 87% identity (820/935 amino acids identical)
<50% identity with Ankyrin-B



Monoclonal antibody info:
Mouse strain: Balb/C
Myeloma cell: SP2/0
Mouse Ig Isotype: IgG2a

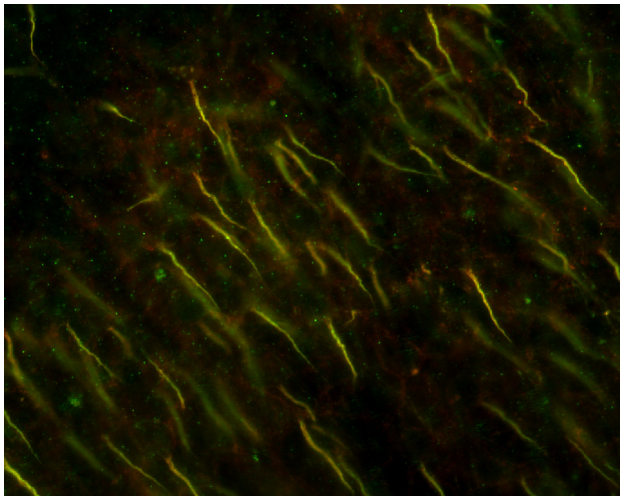
NeuroMab Applications:
Immunocytochemistry and Immunohistochemistry

Species Reactivity: human, rat, mouse

Does not cross-react with Ankyrin-B

Top: adult rat thalamus (left) and cortex (right) immunohistochemistry of axon initial segments

Center: immunofluorescence staining of axon initial segments in adult rat cortex with N106/36 (red) and βIV-spectrin rabbit polyclonal (green). Image courtesy of Matt Rasband (Baylor College of Medicine).



Bottom: immunofluorescence staining of nodes of Ranvier in adult rat optic nerve with N106/36 (red) and Caspr rabbit polyclonal (green). Image courtesy of Matt Rasband (Baylor College of Medicine).