

### Anti-RGS14, NeuroMab clone N133/21

#### Immunogen:

Fusion protein amino acids 1-544 (full-length) of rat RGS14 (also known as Regulator of G-protein signaling 14, RAP1/RAP2-interacting protein and RPIP1, accession number O08773)

Mouse: 95% identity (524/547 amino acids identical)

Human: 86% identity (475/547 amino acids identical)

<45% identity with RGS12 and other RGS proteins

Epitope mapped to within amino acids 444-490 (between 2<sup>nd</sup> Ras-binding & GoLoco domains, PDAKTREASSIPPCRSQGCLPRTQTKDHLPLSSLSVEDASGSTG, 2014 Evans et al J Comp Neurol)

Mouse: 85% identity (40/47 amino acids identical)

Human: 51% identity (24/47 amino acids identical)

#### Monoclonal antibody info:

Mouse strain: Balb/C

Myeloma cell: SP2/0

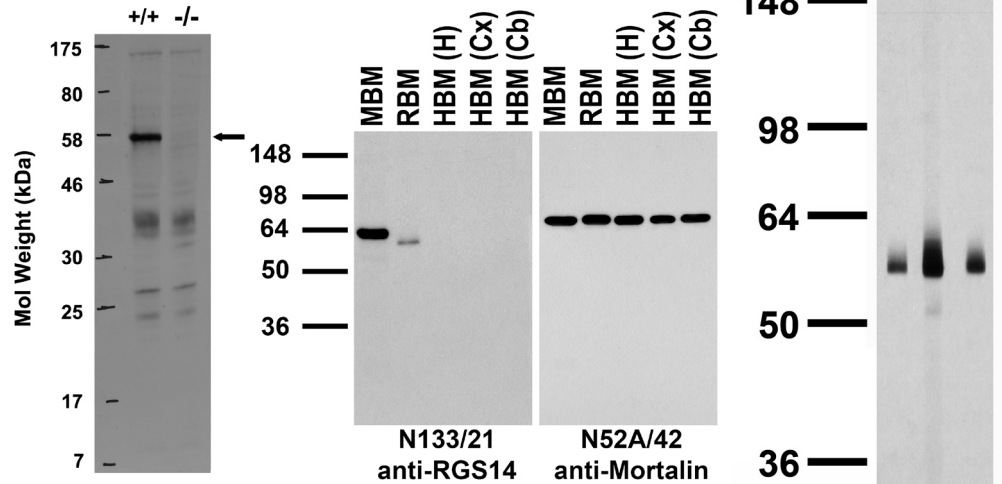
Mouse Ig Isotype: IgG2a

#### NeuroMab Applications:

Immunoblot,  
Immunocytochemistry and  
Immunohistochemistry

Species Reactivity: rat, mouse

MW: 60 kDa



Top left: immunoblot against lysates from wild-type (+/+) and RGS14 knockout (-/-) mouse brains probed with N133/21. Data courtesy of John Hepler (Emory).

Top center: immunoblot against crude membranes from whole mouse (MBM) or rat (RBM) brain and from human hippocampus [HBM(H)], cerebral cortex [HBM(Cx)] or cerebellum [HBM(Cb)] probed with N133/21 (left) or N52A/42 (right) TC supe

Top right: adult rat brain membrane immunoblot

Bottom: adult rat hippocampus immunohistochemistry

