UC Davis/NIH NeuroMab Facility
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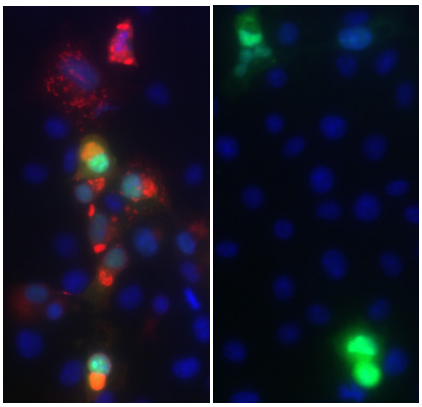
Anti-SVOP, NeuroMab clone N356/9

Immunogen:
Fusion protein amino acids 1-85 (MEEDLFQLRQLPVVKFRRTGESARSEDDAASGEHDVQIEGVRV GLEAVELDDGAAVPKEFANPTDDTFMVEDAVEAIGFGRFQWK, cytoplasmic N-terminus) of rat SVOP (also known as Synaptic vesicle 2-related protein and SV2-related protein, accession number Q9Z2I7)
Mouse: 97% identity (83/85 amino acids identical)
Human: 95% identity (81/85 amino acids identical)
<20% overall identity with SVOPL/SVOP2 but >80% identity (14/16 amino acids) near C-terminus (TFMVEDAVEAIGFGRF)



Monoclonal antibody info:
Mouse strain: Balb/C
Myeloma cell: SP2/0
Mouse Ig Isotype: IgG2b (can be combined with anti-SV2 IgG1 mouse monoclonal antibody in multiple labeling experiments)

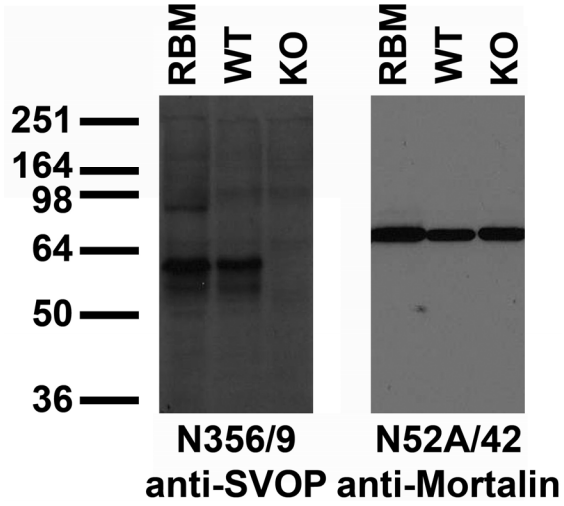
NeuroMab Applications:
Immunoblot, Immunocytochemistry and Immunohistochemistry

Species Reactivity: rat, mouse

Does not cross-react with SVOPL/SVOP2

MW: 60 kDa

Top: transfected cell immunofluorescence: COS cells expressing GFP-tagged SVOP (left) and SVOPL/SVOP2 (right). Red = N356/9, Green = GFP, Blue = Hoechst nuclear stain.



Center: immunoblot versus crude membranes from adult rat brain (RBM) and WT and SVOP KO mouse brains probed with N356/9 (left) and N52A/42 (right) TC supe. Mouse brains courtesy of Jia Yao and Sandra Bajjalieh (University of Washington).

Bottom: adult rat hippocampus immunohistochemistry