



Catalog Number:	MO22133	Host:	Mouse
Product Type:	Mouse Monoclonal IgG	Species Reactivity:	Human, Rat, Mouse, Cow, and Pig
Immunogen Sequence:	Recombinant full length protein	Format:	Purified liquid antibody in 50% PBS, 50% glycerol plus 5mM of Sodium Azide. Concentration: 1mg/ml.
Applications:	Immunofluorescent: 1:500-1,000 Immunohistochemistry: 1:500-1,000 Western Blot: 1:1,000-2,000		

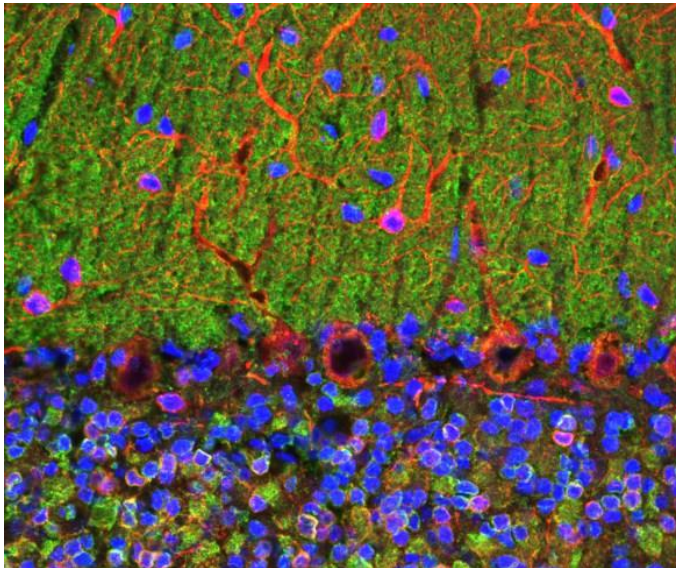
Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

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:

Visinin-like protein 1 is a low molecular weight protein which is very abundant in the nervous system and is found only in neurons, though different neurons have different levels of expression. It is particularly concentrated in cerebellar Purkinje cells, and generally tends to be most abundant in neuronal perikarya and dendrites. The protein was discovered independently by several groups and is therefore also sometimes known as hippocalcin-like protein 3, HLP3, HPCAL3,



HUVISL1, VLP-1, VILIP and VILIP-1. The protein belongs to the large superfamily of calmodulin and parvalbumin type proteins which function by binding Calcium ions. Calcium binding alters the conformation of these proteins and allow them to interact with other binding partners, the properties of which they may alter.

Image: Confocal image of adult rat cerebellum stained with MO22133 antibody to visinin-like protein 1 in green, chicken polyclonal antibody to MAP2 in red, and DNA in blue. The MO22133 antibody reveals perikarya and synaptic regions in the neuron rich granular layer (bottom) and synapse rich molecular layer (top).

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