



**Catalog Number:** RA22155

**Host:** Rabbit

**Product Type:** Rabbit Polyclonal

**Species Reactivity:** Human, Rat, Mouse

**Immunogen Sequence:** Full length recombinant human VLP1

**Format:** Affinity purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3

**Applications:** Immunofluorescence: 1:2,000  
Immunohistochemistry: 1:2,000  
Western Blot: 1:10,000

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

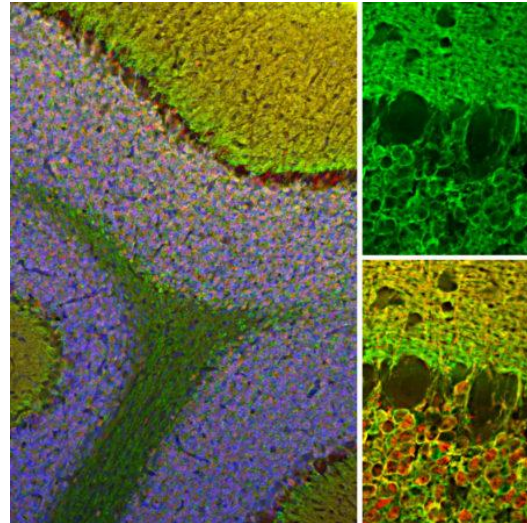
### Application Notes

#### Description/Data

Visinin was originally isolated biochemically from chicken retina as a major protein of ~24kDa on SDS-PAGE gels. 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. Visinin-like protein 1 has four "EF hand" domains, which are negatively charged helix-turn-helix peptides which are responsible for Calcium binding. The protein is 191 amino acids in size and has a molecular weight on SDS-PAGE of 18kDa. The protein has recently been suggested to be a useful blood biomarker of Alzheimer's disease and traumatic brain injury.

RA22155 antibody was made against full length recombinant human visinin-like protein 1, and expressed in and purified from E. Coli. It can be used to track this protein by ELISA, on western blots and in cells in culture and sections.

*Image: Immunofluorescent analysis of rat cerebellum section stained with rabbit pAb to VLP1, RA22155, dilution 1:2,000 in green, and costained with mouse mAb to calretinin, dilution 1:2,000 in red. 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 the above antibodies. The VLP1 antibody reveals protein expressed in granule cells membranes and their synapses in both the granular and molecular layer of the cerebellum. The calretinin antibody stains the cytoplasm of neurons in the nuclear and molecular layers of cerebellum.*



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