

Visinin-Like Protein 1 (D9L6L) Rabbit mAb

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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 18	Source/Isotype: Rabbit IgG	UniProt ID: #P62760	Entrez-Gene Id: 7447
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Visinin-like Protein 1 (D9L6L) Rabbit mAb recognizes endogenous levels of total Visinin-like Protein 1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg150 of human Visinin-like Protein 1 protein.

Background

Visinin-like Protein 1, also called VILIP-1 and VSNL1, is a calcium-sensing protein in the central nervous system. Visinin-like Protein 1 exhibits a widespread distribution with high expression in the CNS, and lower expression levels in some peripheral tissues (1). Visinin-like Protein 1 responds to increased intracellular calcium concentration by translocating from the cytoplasm to membranes through calcium-dependent myristoylation at its N-terminus that allows interaction with membranes (2). This change in localization has been proposed to facilitate the activation of compartment-specific signal transduction for the selective activation of downstream signaling cascades (3,4). In Alzheimer's disease, Visinin-like Protein 1 expression is decreased in the brain, including a reduced number of Visinin-like Protein 1 immunoreactive neurons (5); however, the presence of the protein is increased in the CSF (6), suggesting that it is released from neurons during insults.

Background References

- Gierke, P. et al. (2004) *Biochem Biophys Res Commun* 323, 38-43.
- Kobayashi, M. et al. (1993) *J Biol Chem* 268, 18898-904.
- Spilker, C. et al. (2002) *J Neurosci* 22, 7331-9.
- Braunewell, K.H. et al. (1997) *J Neurochem* 68, 2129-39.
- Bernstein, H.G. et al. (1999) *J Neurocytol* 28, 655-62.
- Lee, J.M. et al. (2008) *Clin Chem* 54, 1617-23.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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