Datasheet for ABIN1580471

anti-VSNL1 antibody

2 Images

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Overview

Quantity:	100 µL
Target:	VSNL1
Reactivity:	Human, Mouse, Rat, Cow
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Clone:	2D11
Isotype:	IgG1
Purification:	affinity purified antibody

Target Details

Target:	VSNL1
Alternative Name:	Visinin-like protein 1 (VSNL1 Products)
Background:	Visinin was originally isolated biochemically from chicken retina as a major protein of about 24 kDa on SDS-PAGE. Following cloning and sequencing of visinin, several visinin like proteins were discovered by homology screening. One of these, Visinin-like protein 1 is a small Calcium binding 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

Target Details

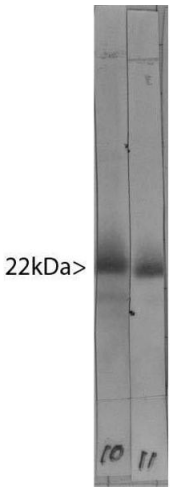
	cerebellar Purkinje cells, and tends to be most abundant in perikarya and dendrites. The protein was discovered independently by several groups and is therefore also sometimes known as hippocalcin-like protein 3, HLP3, HPCAL3, HUVISL1, VLP-1, VILIP and VILIP-1. The protein belongs to the large superfamly of calmodulin and paravalbumin type proteins which function by binding Calcium ions. Calcium binding alters the confomation 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. Visinin-like protein 1 is 191 amino acids in size and has a molecular weight on SDS-PAGE of 22 kDa. The protein has recently been suggested to be a useful biomarker of Alzheimer's disease and traumatic brain injury. The HGNC name for this protein is VSNL1.

Application Details

Application Notes:	The antibody solution can be used at dilutions of 1:500-1:1,000 in immunofluorescence experiments. In western blotting using chemiluminescence it can be used at dilutions of 1:1,000-2,000.
Restrictions:	For Research Use only

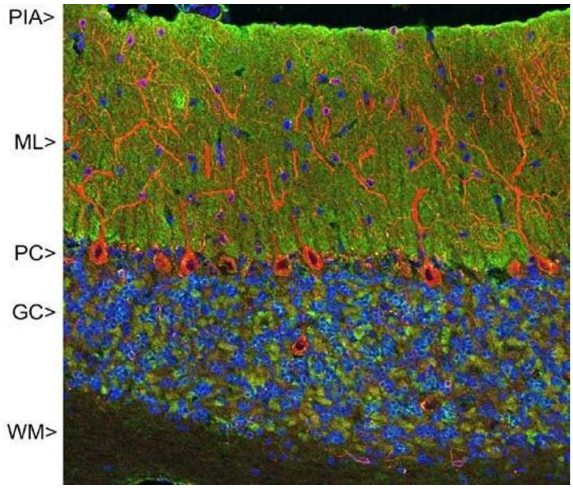
Handling

Format:	Liquid
Concentration:	1 mg/mL
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store at 4°C short term or -20°C long term.



Western Blotting

Image 1. Western blot of bovine cerebellum homogenate stained with ABIN1580471 in lane 10. Note the strong clean band running at 22kDa. Lane 11 shows the same material stained with our alternate antibody to VSNL1, MCA- 3A9, which binds to the same band.



Immunofluorescence

Image 2. Confocal image of adult rat cerebellar cortex stained with MCA- 2D11 (green), chicken polyclonal antibody to MAP2 CPCA-MAP2 (red) and DNA (blue). The ABIN1580471 antibody reveals synapses in the molecular layer (ML) strongly. Synaptic regions are also seen in the granule cell layer (GC). The perikarya of Purkinje cells (PC) are revealed with MAP2 antibody (4). Little staining is seen in the white matter (WM).

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