Anti-VDCC α1A (Cav2.1)

Product Information:

1)	**Catalog #:**	MSFR106030
	Item Name:	VDCCa1A (Cav2.1) pAb (GP) 20ug
	Size :	20μg (affinity-purified with antigen polypeptide)
	Species :	Guinea pig
	Product Code :	VDCCa1A-GP-Af810
	RRID :	AB_2571851
2)	**Catalog #:**	MSFR106040
	Item Name:	VDCCa1A (Cav2.1) pAb (GP) 50ug
	Size :	50μg (affinity-purified with antigen polypeptide)
	Species :	Guinea pig
	Product Code :	VDCCa1A-GP-Af810
	RRID :	AB_2571851

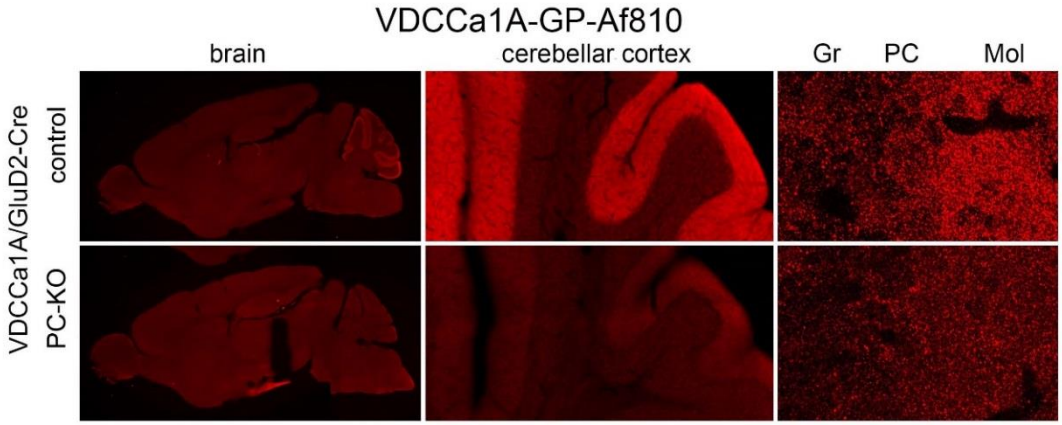
Formulation : Liquid ; 200 μg/ml in PBS with 0.05% NaN_3.

Storage : Store at cool temp (2-10˚C).
The antibody can be stored at 2-10˚C. The antibody can be also aliquoted and stored at -80˚C for long-term storage. Avoid repeated freeze-thawing. Non-hazardous. No MSDS required.

Species : guinea pig, polyclonal

Antigen : mouse VDCCa1A, 361-400 aa (U76716)
DETDVEQRHPFDGALRRATLKKSKTDLLNPEEAEDQLADI.
This portion corresponds to the cytoplasmic loop between I-S6 and II-S1.

Specificity : mouse (others not tested)
Marked reduction of immunohistochemical labeling in the cerebellar molecular layer of Purkinje cell-specific Cav2.1-knockout mice, and almost blank labeling in the brain of global Cav2.1-knockout mice (see Fig. 6 in Miyazaki et al. (2011; reference 1).



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Applications：In general, affinity-purified antibody is used at around 1 microgram/ml for immunoblot and immunohistochemistry. The most appropriate concentration should be determined by users, because it depends on contents in given cells, tissues and organs.

Research Use：For research use only, not for use in diagnostic procedures.

Reference：1) Miyazaki T, Yamasaki M, Hashimoto K, Yamazaki M, Abe M, Usui H, Kano M, Sakimura K, Watanabe M: $Ca_v2.1$ in cerebellar Purkinje cells regulates competitive excitatory synaptic wiring, cell survival, and cerebellar biochemical compartmentalization. **J. Neurosci.** 32:1311-1328, 2011.
2) Holderith N ,Lorincz A, Katona G, Rozsa B, Kulik A,Watanabe M,Nusser Z: Release probability of hippocampal glutamatergic terminals scales with the size of the active zone.**Nature Neurosci**,15:988-997,2012.
3) Indriati DW, Kamasawa N, Matsui K, Watanabe M, Shigemoto R: Quantitative localization of $Ca_v2.1$ (P/Q-type) voltage-dependent calcium channels in Purkinje cells: somatodendritic gradient and distinct somatic co-clustering with calcium-activated potassium channels. **J. Neurosci**. 33:3668-3678, 2013.

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