

*Anti-VDCC  $\alpha$ 1G (Cav3.1)*

**Code Number** : VDCCa1G- Rb-Af810 (rabbit, RRID : AB\_2571852)  
 : VDCCa1G-GP-Af320 (guinea pig, RRID : AB\_2571853)

**Size** : 20  $\mu$ g and 50  $\mu$ g / See label on vial  
 (affinity-purified with antigen polypeptide)

**Formulation** : Liquid ; 200  $\mu$ g/ml in PBS with 0.05% NaN<sub>3</sub>.

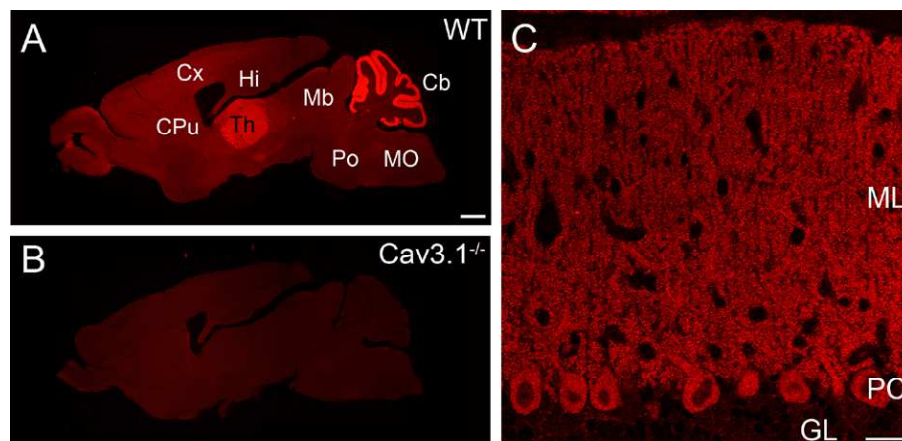
**Storage** : Store at 4°C. The antibody can be stored at 4°C. The antibody can be also aliquotted and stored at -80°C for long-term storage. Avoid repeated freeze-thawing. Non-hazardous. No MSDS required.

**Species** : guinea pig / rabbit, polyclonal

**Antigen** : mouse VDCCa1G (CPKKDALSLSLGLSSDP; C-terminal tail, NM\_00978)

**Specificity** : mouse (others not tested)

Almost blank labeling in a1G-KO brain. Guinea pig a1G antibody produces high signals than rabbit one.



**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) Hildebrand ME, Isope P, Miyazaki T, Nakaya T, Garcia E, Feltz A, Schneider T, Hescheler J, Kano M, Sakimura K, Watanabe M, Dieudonne S, Snutch TP: Functional coupling between mGluR1 and Cav3.1 T-type calcium channels underlies parallel fiber-induced fast calcium signaling within Purkinje cell dendritic spines. **J. Neurosci.** 29: 9668-9682, 2009.

2) Parajuli LK, Fukazawa Y, Watanabe M, Shigemoto R: Subcellular Distribution of alpha 1G Subunit of T-type Calcium Channel in the Mouse Dorsal Lateral Geniculate Nucleus. **J. Comp. Neurol.** 518:4362-4374, 2010.