

***Anti-PLC $\beta$ 1****(phospholipase C $\beta$ 1)*

**Code Number** : PLC $\beta$ 1-Go-Af1000 (goat, RRID : AB\_2571827)  
 : PLC $\beta$ 1-GP-Af508 (guinea pig, RRID : AB\_2571828)

**Size** : PLC $\beta$ 1-GP-Af508 is 10  $\mu$ g only.  
 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>.  
 (affinity-purified with antigen polypeptide)

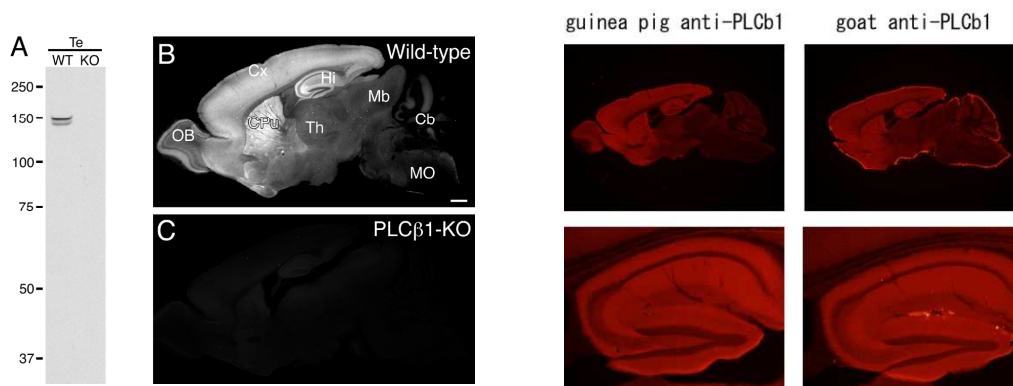
**Storage** : Store at 4°C. The antibody can be stored at 4°C. The antibody can be also aliquotted and stored at -80°C for long-term storage. Avoid repeated freeze-thawing. Non-hazardrous. No MSDS required.

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

**Antigen** : mouse PLC $\beta$ 1, 36-87 aa (TIVTPTILRTDPQGFFFYWTDQNKETELLDLSL VKDARCGKHAEAPKDPKLR, NM\_019677)

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

Immunoblot detects a major band at 150 kDa and a minor band at 145kDa. The specificity was verified by blank immunostaining in PLC $\beta$ 1-KO brains. See the below reference for immunoblot and immunohistochemistry.



**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. In use of cryosections and microslicer sections, pretreatment of dipping sections in 1:3 methanol, 3:1 methanol, and pure methanol for 3 min each will greatly enhance immunohistochemical signals for PLC $\beta$ .

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

**Remarks** : Guinea pig antibody yields slightly higher signals than goat one, but its stock is small and limited.

**Reference** : Fukaya M, Uchigashima M, Nomura S, Hasegawa Y, Kikuchi H, Watanabe M: Predominant expression of phospholipase C $\beta$ 1 in telencephalic principal neurons and cerebellar interneurons, and its close allocation with related signaling molecules in somatodendritic neuronal elements. **Eur J Neurosci**, 28:1744-1759, 2008.

2) Hozumi Y, Fukaya M, Adachi N, Saito N, Otani K, Kondo H, Watanabe M, Goto K: Diacylglycerol kinase beta accumulates on the perisynaptic site of medium spiny neurons in the striatum. **Eur J Neurosci**, 28:2409-2422, 2008.

3) Tanimura A, Yamazaki M, Hashimotodani Y, Uchigashima M, Kawata S, Abe M, Kita Y, Hashimoto K, Shimizu T, Watanabe M, Sakimura K, Kano M: The endocannabinoid 2-arachidonoylglycerol produced by diacylglycerol lipase  $\alpha$  mediates retrograde suppression of synaptic transmission. **Neuron** 65:320-32, 2010.