Anti-Homer 1

Code Number : Homer1-Rb-Af1000 (rabbit, RRID : AB_2571774)
: Homer1-Go-Af1270 (goat, RRID : AB_2631104)

Size : 20 μg and 50 μg / See label on vial
(affinity-purified with antigen polypeptide)

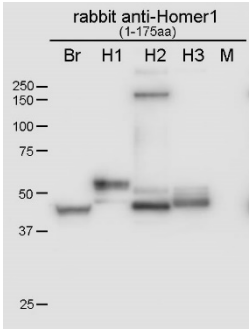
Formulation : Liquid ; 200 μg/ml in PBS with 0.05% NaN_3.

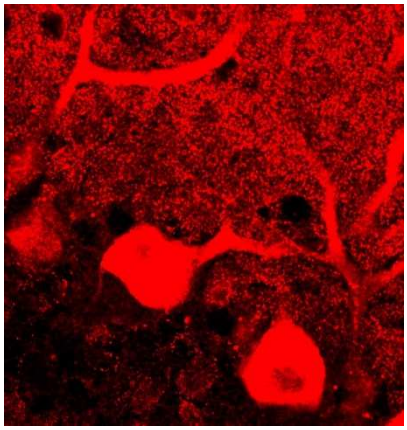
Storage : Store at 4˚C. The antibody can be stored at 4˚C. The antibody can be also aliquotted and stored at -80˚C for long-term storage. Avoid repeated freeze-thawing. Non-hazardrous. No MSDS required.

Species : rabbit / goat, polyclonal

Antigen : mouse Homer-1, 1-175 aa (NM_147176)

Specificity : mouse (others not tested)
Immunoblot detects a single protein band at 43-45 kDa.





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.

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FRONTIER INSTITUTE co.,ltd.

FRONTIER INSTITUTE Co.Ltd
1-777-12,Shinko-nishi,Ishikari,Hokkaido 061-3241 Japan
TEL (0)133-73-9194 FAX (0)133-73-4567
e-mail : info@frontier-institute.com
URL : http://www.frontier-institute.com/

Remarks : In the Homer family, the first 120 amino acids are highly conserved. This Homer-1 antibody must cross-react Homer-2 and Homer-3, thus working as a pan-Homer antibody. Rabbit and goat Homer-1 antibodies produce similar patterns in immunohistochemistry and immunoblot.

Reference : Nakamura, M., Sato, K., Fukaya, M., Araishi, K., Aiba, A., Kano, M., Watanabe, M. (2004) Signaling complex formation of phospholipase Cβ4 with mGluR1α and IP3R1 at the perisynapse and endoplasmic reticulum in the mouse brain. **Eur. J. Neurosci** 20:2929-2944.

2. Nomura S, Fukaya M, Tsujioka T, Wu D, Watanabe M: Phospholipase Cβ3 is distributed in both somatodendritic and axonal compartments and localized around perisynapse and smooth endoplasmic reticulum in mouse Purkinje cell subsets. **Eur. J. Neurosci.** 25:659-672, 2007.

3. Gutierrez-Mecinas M, Polgár E, Watanabe M, Abraira VE, Todd AJ: Immunostaining for Homer reveals the majority of excitatory synapses in the mouse spinal dorsal horn. **Neuroscience**, ;329:171-181, 2016.

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1-777-12,Shinko-nishi,Ishikari,Hokkaido 061-3241 Japan
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