

GRIP

Cat.No. 151 002; Polyclonal rabbit antibody, 200 µl antiserum (lyophilized)

Data Sheet

Reconstitution/ Storage	200 µl antiserum, lyophilized. For reconstitution add 200 µl H ₂ O, then aliquot and store at -20°C until use.
Applications	WB: 1 : 100 up to 1 : 1000 (AP staining) IP: not tested yet ICC: not tested yet IHC: not tested yet IHC-P/FFPE: not tested yet
Immunogen	Recombinant protein corresponding to AA 662 to 769 from rat GRIP (UniProt Id: P97879)
Reactivity	Reacts with: human (Q9Y3R0), rat (P97879), mouse (Q925T6), hamster. Other species not tested yet.
Specificity	Recognizes GRIP 1 and GRIP 2.
matching control	151-0P

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

The **glutamate receptor interacting protein GRIP** is a post-synaptic scaffolding protein consisting of seven PDZ domains. It has been shown to interact with a diverse array of proteins like several AMPA receptors, HAP1-A, liprin-α and LAR receptor protein tyrosine phosphatases (LAR-RPTPs). GRIP is also involved in the synaptic targeting of AMPA receptors.

Selected References SYSY Antibodies

Astrocytes regulate GluR2 expression in motor neurons and their vulnerability to excitotoxicity.
Van Damme P, Bogaert E, Dewil M, Hersmus N, Kiraly D, Scheveneels W, Bockx I, Braeken D, Verpoorten N, Verhoeven K, Timmerman V, et al.
Proceedings of the National Academy of Sciences of the United States of America (2007) 104(37): 14825-30. **WB**

Selected General References

The proteoglycan NG2 is complexed with alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) receptors by the PDZ glutamate receptor interaction protein (GRIP) in glial progenitor cells. Implications for glial-neuronal signaling.

Stegmüller J, Werner H, Nave KA, Trotter J
The Journal of biological chemistry (2003) 278(6): 3590-8.

The PDZ proteins PICK1, GRIP, and syntenin bind multiple glutamate receptor subtypes. Analysis of PDZ binding motifs.
Hirbec H, Perestenko O, Nishimune A, Meyer G, Nakanishi S, Henley JM, Dev KK
The Journal of biological chemistry (2002) 277(18): 15221-4.

Evidence that GRIP, a PDZ-domain protein which is expressed in the embryonic forebrain, co-activates transcription with DLX homeodomain proteins.

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EphrinB ligands recruit GRIP family PDZ adaptor proteins into raft membrane microdomains.
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GRIP: a synaptic PDZ domain-containing protein that interacts with AMPA receptors.
Dong H, O'Brien RJ, Fung ET, Lanahan AA, Worley PF, Huganir RL
Nature (1997) 386(6622): 279-84.