Synaptic Systems

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GABABR 2

Cat.No. 322 205; Polyclonal Guinea pig antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Guinea pig serum albumin was added for stabilization. For reconstitution add 50 µl H_2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	**WB**: 1 : 1000 (AP staining) **IP**: yes **ICC**: 1 : 500 **IHC**: 1 : 500 **IHC-P/FFPE**: not tested yet
Immunogen	Synthetic peptide corresponding to AA 917 to 940 from rat GABABR2 (UniProt Id: O88871)
Reactivity	Reacts with: rat (O88871), mouse (Q80T41). Other species not tested yet.
Specificity	Specific for GABABR 2. (K.O. verified)

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

Metabotropic **g**-**a**mino**b**utyric **a**cid type **B r**eceptors (**GABABR**s) are involved in the modulation of synaptic transmission and activity of cerebellar and thalamic neurons.
In contrast to the ionotrophic GABA-A receptors they are linked to G-proteins underlying the slow inhibitory postsynaptic potentials.
GABABR 1 and **GABABR 2** have been shown to form heterodimers.

Selected References SYSY Antibodies

Modular composition and dynamics of native GABAB receptors identified by high-resolution proteomics.
Schwenk J, Pérez-Garci E, Schneider A, Kollewe A, Gauthier-Kemper A, Fritzius T, Raveh A, Dinamarca MC, Hanuschkin A, Bildl W, Klingauf J, et al.
Nature neuroscience (2016) 19(2): 233-42. **WB, IP; KO verified; tested species: mouse**

Selected General References

Distinct localization of GABA(B) receptors relative to synaptic sites in the rat cerebellum and ventrobasal thalamus.
Kulik A, Nakadate K, Nyíri G, Notomi T, Malitschek B, Bettler B, Shigemoto R
The European journal of neuroscience (2002) 15(2): 291-307.

Heteromeric assembly of GABA(B)R1 and GABA(B)R2 receptor subunits inhibits Ca(2+) current in sympathetic neurons.
Filippov AK, Couve A, Pangalos MN, Walsh FS, Brown DA, Moss SJ
The Journal of neuroscience : the official journal of the Society for Neuroscience (2000) 20(8): 2867-74.