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Glycine receptor

Cat.No. 146 011BT; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)

Data Sheet

Reconstitution/ Storage	100 μg purified IgG, lyophilized, biotin-labeled For reconstitution add 100 μl H $_2$ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1: 500 up to 1: 1000 (AP staining) IP: yes ICC: yes IHC: 1: 250 up to 1: 500 (see remarks) IHC-P/FFPE: not tested yet ELISA: yes
Label	biotin
Clone	mAb4a
Subtype	IgG1 (κ light chain)
Immunogen	Recombinant protein corresponding to AA 1 to 457 from rat Glycine receptor a1 (UniProt Id: P07727)
Epitop	Epitop: AA 96 to 105 from rat Glycine receptor α1 (UniProt Id: P07727)
Reactivity	Reacts with: human (P23415, P23416, P48167), rat (P07727, P22771, P20781), mouse (Q64018, Q7TNC8, P48168), pig, zebrafish. Other species not tested yet.
Specificity	Specific for all glycine receptor subunits.
Remarks	IHC : Tissue sections require additional methanol/acetic acid treatment prior to antibody incubation. For details see Dumoulin A, Triller A & Dieudonné S (2001). recommended protocol

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

The inhibitory **glycine receptor** (GlyR) is a member of the ligand-gated ion channel superfamily of neurotransmitter receptors. It is an oligomeric protein composed of homologous subunits (α 1-4 and β) with four transmembrane segments (M1-M4) each.

It shows a widespread expression profile in brain. Several isoforms and splice variants with distinct pharmacology have been discovered so far.

Selected General References

Expression of glycine receptor alpha subunits and gephyrin in cultured spinal neurons.

Bechade C, Colin I, Kirsch J, Betz H, Triller A

The European journal of neuroscience (1996) 8(2): 429-35.

The glycine receptor deficiency of the mutant mouse spastic: evidence for normal glycine receptor structure and localization. Becker CM, Hermans-Borgmeyer I, Schmitt B, Betz H

The Journal of neuroscience: the official journal of the Society for Neuroscience (1986) 6(5): 1358-64.

Identification of glycinergic synapses in the cochlear nucleus through immunocytochemical localization of the postsynaptic recentor.

Altschuler RA, Betz H, Parakkal MH, Reeks KA, Wenthold RJ

Brain research (1986) 369(1-2): 316-20.

Distribution of glycine receptors at central synapses: an immunoelectron microscopy study.

Triller A, Cluzeaud F, Pfeiffer F, Betz H, Korn H

The Journal of cell biology (1985) 101(2): 683-8.

Purification and characterization of the glycine receptor of pig spinal cord.

Graham D, Pfeiffer F, Simler R, Betz H Biochemistry (1985) 24(4): 990-4.