Synaptic Systems

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Glycogen phosphorylase

Cat.No. 255 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit 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**: not tested yet **IHC-P/FFPE**: not tested yet
Immunogen	Synthetic peptide corresponding to AA 826 to 842 from mouse Glycogen phosphorylase (UniProt Id: Q8CI94)
Reactivity	Reacts with: rat (P53534), mouse (Q8CI94). Other species not tested yet.
Specificity	Specific for brain glycogen phosphorylase.
matching control	255-0P

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

The homodimeric protein **glycogen phosphorylase** is the key enzyme in glycogen degradation. Three isoforms dominating either muscle, liver or brain tissue have been described. **PYGB** is the brain specific isoform that is mainly expressed in astrocytes. These glia cells contain large amounts of glycogen that serve as an energy reserve.

Selected General References

Glycogen phosphorylase isozyme pattern in mammalian retinal Müller (glial) cells and in astrocytes of retina and optic nerve.
Pfeiffer-Guglielmi B, Francke M, Reichenbach A, Fleckenstein B, Jung G, Hamprecht B
Glia (2005) 49(1): 84-95.

Immunocytochemical localization of glycogen phosphorylase isozymes in rat nervous tissues by using isozyme-specific antibodies.
Pfeiffer-Guglielmi B, Fleckenstein B, Jung G, Hamprecht B
Journal of neurochemistry (2003) 85(1): 73-81.

Comparative analysis of species-independent, isozyme-specific amino-acid substitutions in mammalian muscle, brain and liver glycogen phosphorylases.
Hudson JW, Hefferon KL, Crerar MM
Biochimica et biophysica acta (1993) 1164(2): 197-208.