

Glycogen phosphorylase

Cat.No. 255 002; 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 : 1000 (AP staining) IP: not tested yet ICC: not recommended IHC: not recommended IHC-P/FFPE: not tested yet
Immunogen	Synthetic peptide corresponding to AA 826 to 842 from mouse Glycogen phosphorylase (UniProt Id: Q8C194)
Reactivity	Reacts with: rat (P53534), mouse (Q8C194). Other species not tested yet.
Specificity matching control	Specific for brain glycogen phosphorylase. 255-OP

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.

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.