Gephyrin
Cat.No. 147 011C5; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)

Data Sheet

Reconstitution/Storage
- 100 µg purified IgG, lyophilized, fluorescence-labeled with Oyster® 650. Albumin and azide were added for stabilization. For reconstitution add 100 µl H₂O to get a 1mg/ml solution in PBS. Either add 1:1 (v/v) glycerol, then aliquot and store at -20°C until use, or store aliquots at -80°C without additives.
- Reconstitute immediately upon receipt! Avoid bright light when working with the antibody to minimize photo bleeching of the fluorescent dye. The mounting agent Aquatex® (Merck Chemicals) is not compatible with Oyster dyes!

Applications
- WB: N/A
- IP: N/A
- ICC: 1 : 250 up to 1 : 500
- IHC: not tested yet
- IHC-P/FFPE: not tested yet

Label
- Oyster 650

Clone
- mAb7a

Subtype
- IgG1 (κ light chain)

Immunogen
- Nativ Protein corresponding to AA 1 to 768 from rat Gephyrin (UniProt Id: Q03555)

Epitop
- Epitop: AA 264 to 276 from rat Gephyrin (UniProt Id: Q03555)

Reactivity
- Reacts with: human (Q9NQX3), rat (Q03555), mouse (Q8BUV3), pig, goldfish, zebrafish.
- Other species not tested yet.

Specificity
- Specific for the brain specific 93 kDa splice variant phosphorylated at Ser-270. (K.O. verified) K.O.

Selected General References

Gephyrin is a bifunctional protein which is essential for both synaptic clustering of inhibitory neurotransmitter receptors in the central nervous system and the biosynthesis of the molybdenum cofactor (MoCo) in peripheral tissues. It co-purifies with the inhibitory glycine receptor (GlyR) and is expressed abundantly in all brain areas which contain synapses.

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