Synaptic Systems

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GFP

Cat.No. 132 003CpH; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen, fluorescence-labeled with CypHer5E. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H_2O 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.
Applications	**WB**: N/A **IP**: N/A **ICC**: 1 : 100 up to 1 : 1000 **IHC**: not tested yet **IHC-P/FFPE**: not tested yet
Label	CypHer5E
Immunogen	Recombinant protein corresponding to AA 1 to 238 from GFP (UniProt Id: P42212)
Specificity	Recognizes GFP, mEGFP, superfolder GFP, most common CFP and YFP variants.Does not cross-react to mCherry, mRFP, dsRed, mTagBFP or their most common derivatives.
Remarks	This antibody is suitable for internalization studies when GFP is fused to an epitope residing in the lumen of an acidic compartment.

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

Green **f**luorescent **p**rotein **GFP** and its derivates have become universal tools in cell biology. These antibodies allow immunoprecipitation and visualization of GFP fusion proteins on immunoblots and by immunocytochemistry.

Selected References SYSY Antibodies

How to scale down postsynaptic strength.
Tatavarty V, Sun Q, Turrigiano GG
The Journal of neuroscience : the official journal of the Society for Neuroscience (2013) 33(32): 13179-89. **UPTAKE**

Selected General References

Imaging into the future: visualizing gene expression and protein interactions with fluorescent proteins.
van Roessel P, Brand AH
Nature cell biology (2002) 4(1): E15-20.

Illuminating the secretory pathway: when do we need vesicles?
Stephens DJ, Pepperkok R
Journal of cell science (2001) 114(Pt 6): 1053-9.

Watching proteins in the wild: fluorescence methods to study protein dynamics in living cells.
Chamberlain C, Hahn KM
Traffic (Copenhagen, Denmark) (2000) 1(10): 755-62.