Synaptic Systems

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GFP

Cat.No. 132 111; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg purified IgG, lyophilized. Azide was added before lyophilization. For reconstitution add 100 µl H_2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	**WB**: 1 : 1000 up to 1 : 10000 (AP staining) **IP**: not recommended (see remarks) **ICC**: yes (methanol fixated material only) (see remarks) **IHC**: not tested yet **IHC-P/FFPE**: not tested yet
Clone	101G4
Subtype	IgG2b (κ light chain)
Immunogen	Recombinant protein corresponding to AA 1 to 238 from GFP (UniProt Id: P42212)
Epitop	Epitop: AA 183 to 191 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	**IP**: Cat. no. 132 011 or 132 002 is recommended for IP. **ICC**: Cat. no. 132 011 or 132 002 is recommended for ICC.

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

Arp2/3 complex is essential for actin network treadmilling as well as for targeting of capping protein and cofilin.
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Molecular biology of the cell (2013) 24(18): 2861-75. **WB**

Microtubules as platforms for assaying actin polymerization in vivo.
Oelkers JM, Vinzenz M, Nemethova M, Jacob S, Lai FP, Block J, Szczodrak M, Kerkhoff E, Backert S, Schlüter K, Stradal TE, et al.
PloS one (2011) 6(5): e19931. **WB**

Rab4b is a small GTPase involved in the control of the glucose transporter GLUT4 localization in adipocyte.
Kaddai V, Gonzalez T, Keslair F, Grémeaux T, Bonnafous S, Gugenheim J, Tran A, Gual P, Le Marchand-Brustel Y, Cormont M
PloS one (2009) 4(4): e5257. **WB**

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.