

GFP

Cat.No. 132 002; 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 up to 1 : 20000 (AP staining) IP: yes ICC: 1 : 500 IHC: 1 : 500 IHC-P/FFPE: yes EM: yes
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.

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

Green fluorescent protein **GFP** and its derivatives 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

- PBX transcription factors drive pulmonary vascular adaptation to birth.
McCulley DJ, Wienhold MD, Hines EA, Hacker TA, Rogers A, Pewowaruk RJ, Zewdu R, Chesler NC, Selleri L, Sun X
The Journal of clinical investigation (2018) 128: 655-667. . **IHC, IHC-P; tested species: mouse**
- Neuronal palmitoyl acyl transferases exhibit distinct substrate specificity.
Huang K, Sanders S, Singaraja R, Orban P, Cijssouw T, Arstikaitis P, Yanai A, Hayden MR, El-Husseini A
FASEB journal : official publication of the Federation of American Societies for Experimental Biology (2009) 238: 2605-15. . **WB, ICC**
- The Calmodulin Binding Region of the Synaptic Vesicle Protein Mover Is Required for Homomeric Interaction and Presynaptic Targeting.
Akula AK, Zhang X, Viotti JS, Nestvogel D, Rhee JS, Ebrecht R, Reim K, Wouters F, Liepold T, Jahn O, Bogeski I, et al.
Frontiers in molecular neuroscience (2019) 12: 249. . **WB, ICC; tested species: mouse**
- Neuron to glia signaling triggers myelin membrane exocytosis from endosomal storage sites.
Trajkovic K, Dhaunchak AS, Goncalves JT, Wenzel D, Schneider A, Bunt G, Nave KA, Simons M
The Journal of cell biology (2006) 1726: 937-48. . **EM**
- Protein kinase C activation promotes the internalization of the human cationic amino acid transporter hCAT-1. A new regulatory mechanism for hCAT-1 activity.
Rotmann A, Strand D, Martiné U, Closs EI
The Journal of biological chemistry (2004) 27952: 54185-92. . **IP**
- Phosphorylation on Ser 359 of the $\alpha 2$ subunit in GABA type A receptors down-regulates their density at inhibitory synapses.
Nakamura Y, Morrow DH, Nathanson AJ, Henley JM, Wilkinson KA, Moss SJ
The Journal of biological chemistry (2020) : . . **WB; tested species: rat**
- Increased expression of heme-binding protein 1 early in Alzheimer's disease is linked to neurotoxicity.
Yagensky O, Kohansal-Nodehi M, Gunaseelan S, Rabe T, Zafar S, Zerr I, Härtig W, Urlaub H, Chua JJ
eLife (2019) 8: . . **WB; tested species: mouse**
- Adaptor protein-3 complex is required for Vangl2 trafficking and planar cell polarity of the inner ear.
Tower-Gilchrist C, Zlatic SA, Yu D, Chang Q, Wu H, Lin X, Faundez V, Chen P
Molecular biology of the cell (2019) : mbcE16080592. . **WB; tested species: mouse**
- SNAREs define targeting specificity of trafficking vesicles by combinatorial interaction with tethering factors.
Koike S, Jahn R
Nature communications (2019) 101: 1608. . **WB; tested species: human**
- Widespread transduction of astrocytes and neurons in the mouse central nervous system after systemic delivery of a self-complementary AAV-PHP.B vector.
Rincon MY, de Vin F, Duqué SI, Fripont S, Castaldo SA, Bouhuijzen-Wenger J, Holt MG
Gene therapy (2018) : . . **IHC; tested species: mouse**
- Morphological study of a connexin 43-GFP reporter mouse highlights glial heterogeneity, amacrine cells, and olfactory ensheathing cells.
Theofilas P, Steinhäuser C, Theis M, Derouiche A
Journal of neuroscience research (2017) 9511: 2182-2194. . **IHC; tested species: mouse**
- CLASP2 Links Reelin to the Cytoskeleton during Neocortical Development.
Dillon GM, Tyler WA, Omuro KC, Kambouris J, Tyminski C, Henry S, Haydar TF, Beffert U, Ho A
Neuron (2017) 936: 1344-1358.e5. . **IP**
- An immunoaffinity-based method for isolating ultrapure adult astrocytes based on ATP1B2 targeting by the ACSA-2 antibody.
Batiuk MY, de Vin F, Duqué SI, Li C, Saito T, Saïdo T, Fiers M, Belgard TG, Holt MG
The Journal of biological chemistry (2017) 29221: 8874-8891. . **IHC; tested species: mouse**
- The intermediate filament protein vimentin is essential for axonotrophic effects of Clostridium botulinum C3 exoenzyme.
Adolf A, Leondaritis G, Rohrbeck A, Eickholt BJ, Just I, Ahnert-Hilger G, Hölte M
Journal of neurochemistry (2016) 1392: 234-244. . **ICC**
- Proteomic Characterization of Inhibitory Synapses Using a Novel pHluorin-tagged γ -Aminobutyric Acid Receptor, Type A (GABAA), $\alpha 2$ Subunit Knock-in Mouse.
Nakamura Y, Morrow DH, Modgil A, Huyghe D, Deeb TZ, Lumb MJ, Davies PA, Moss SJ
The Journal of biological chemistry (2016) 29123: 12394-407. . **WB**
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Deprez F, Pallotto M, Vogt F, Grabiec M, Virtanen MA, Tyagarajan SK, Panzanelli P, Fritschy JM
The Journal of comparative neurology (2015) 52313: 1998-2016. . **EM**
- Granule cell ascending axon excitatory synapses onto Golgi cells implement a potent feedback circuit in the cerebellar granular layer.
Cesana E, Pietrajtis K, Bidoret C, Isope P, D'Angelo E, Dieudonné S, Forti L
The Journal of neuroscience : the official journal of the Society for Neuroscience (2013) 3330: 12430-46. . **EM; tested species: rat**