Datasheet: 4745-1051

BATCH NUMBER 163365

Description:	SHEEP ANTI GREEN FLUORESCENT PROTEIN
Specificity:	GREEN FLUORESCENT PROTEIN
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Western Blotting			▪	
Immunofluorescence	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN_3)
Approx. Protein Concentrations	IgG concentration 5.0 mg/ml
Immunogen	Green fluorescent protein from *Aequorea victoria*.
External Database	**UniProt:**

Links	P42212 Related reagents
RRID	AB_619712
Specificity	**Sheep anti Green Fluorescent Protein antibody** recognizes green fluorescent protein (GFP), a ~27 kDa protein derived from the jellyfish *Aequorea victoria*. GFP fluoresces green (509nm) when excited by blue light (395nm) and is commonly used as a marker of gene expression.

References

1. Mason, D.E. *et al.* (1987) Arterial blood gas tensions in the horse during recovery from anesthesia. J Am Vet Med Assoc. 190 (8): 989-94.
2. Soza-Ried, C. *et al.* (2008) Maintenance of thymic epithelial phenotype requires extrinsic signals in mouse and zebrafish. J Immunol. 181: 5272-7.
3. Shneider, N.A. *et al.* (2009) Gamma motor neurons express distinct genetic markers at birth and require muscle spindle-derived GDNF for postnatal survival. Neural Dev. 4: 42.
4. Siembab, V.C. *et al.* (2010) Target selection of proprioceptive and motor axon synapses on neonatal V1-derived Ia inhibitory interneurons and Renshaw cells. J Comp Neurol. 518: 4675-701.
5. Collins, R.T. *et al.* (2010) MAZe: a tool for mosaic analysis of gene function in zebrafish. Nat Methods. 7: 219-23.
6. Wu, L. *et al.* (2011) Properties of a distinct subpopulation of GABAergic commissural interneurons that are part of the locomotor circuitry in the neonatal spinal cord. J Neurosci. 31 (13): 4821-33.
7. Lopez, K.A. *et al.* (2011) Convection-enhanced delivery of topotecan into a PDGF-driven model of glioblastoma prolongs survival and ablates both tumor-initiating cells and recruited glial progenitors. Cancer Res. 71: 3963-71.
8. League, G.P. and Nam, S.C. (2011) Role of kinesin heavy chain in Crumbs localization along the rhabdomere elongation in *Drosophila* photoreceptor. PLoS One. 6:e21218.
9. Haberlandt, C. *et al.* (2011) Gray matter NG2 cells display multiple Ca2+-signaling pathways and highly motile processes. PLoS One. 6: e17575.
10. Srinivasan, S. *et al.* (2012) The receptor tyrosine phosphatase Lar regulates adhesion between Drosophila male germline stem cells and the niche. Development. 139: 1381-90.
11. Cheung, L.S. *et al.* (2013) Dynamic model for the coordination of two enhancers of broad by EGFR signaling. Proc Natl Acad Sci U S A. 110: 17939-44.
12. Li, X. *et al.* (2013) Temporal patterning of Drosophila medulla neuroblasts controls neural fates. Nature. 498: 456-62.
13. Behnia, R. *et al.* (2014) Processing properties of ON and OFF pathways for *Drosophila* motion detection. Nature. 512: 427-30.
14. de Nooij, J.C. *et al.* (2015) The PDZ-domain protein Whirlin facilitates mechanosensory signaling in mammalian proprioceptors. J Neurosci. 35 (7): 3073-84.
15. Scotti, M. *et al.* (2015) A Hoxa13:Cre mouse strain for conditional gene manipulation in developing limb, hindgut, and urogenital system. Genesis. 53 (6): 366-76.
16. Sun, G.J. *et al.* (2015) Latent tri-lineage potential of adult hippocampal neural stem cells revealed by Nf1 inactivation. Nat Neurosci. 18 (12): 1722-4.
17. Crouch, E.E. *et al.* (2015) Regional and stage-specific effects of prospectively purified vascular cells on the adult V-SVZ neural stem cell lineage. J Neurosci. 35 (11): 4528-39.
18. Schlegel, P. *et al.* (2016) Synaptic transmission parallels neuromodulation in a central

food-intake circuit. eLife 2016;10.7554/eLife.16799
19. Gushchina, S. *et al.* (2018) Increased expression of colony-stimulating factor-1 in mouse spinal cord with experimental autoimmune encephalomyelitis correlates with microglial activation and neuronal loss. Glia. 66 (10): 2108-25.
20. Sagner, A. *et al.* (2018) Olig2 and Hes regulatory dynamics during motor neuron differentiation revealed by single cell transcriptomics. PLoS Biol. 16 (2): e2003127.
21. Won, J.H. *et al.* (2019) ADAMTS Sol narae cleaves extracellular Wingless to generate a novel active form that regulates cell proliferation in *Drosophila*. Cell Death Dis. 10 (8): 564.
22. Balaskas, N. *et al.* (2019) Positional Strategies for Connection Specificity and Synaptic Organization in Spinal Sensory-Motor Circuits. Neuron. 102 (6): 1143-1156.e4.
23. Zhang, R. *et al.* (2019) Id4 Downstream of Notch2 Maintains Neural Stem Cell Quiescence in the Adult Hippocampus. Cell Rep. 28 (6): 1485-1498.e6.
24. Mukhtar, T. *et al.* (2020) Tead transcription factors differentially regulate cortical development. Sci Rep. 10 (1): 4625.
25. Heath, S.L. *et al.* (2020) Circuit Mechanisms Underlying Chromatic Encoding in *Drosophila* Photoreceptors. Curr Biol. 30 (2): 264-275.e8.
26. Lee, S.R. *et al.* (2020) Regulation of epithelial integrity and organ growth by Tctp and Coracle in *Drosophila*.. PLoS Genet. 16 (6): e1008885.
27. Choquet, C. *et al.* (2020) Nkx2-5 defines distinct scaffold and recruitment phases during formation of the murine cardiac Purkinje fiber network. Nat Commun. 11 (1): 5300.
28. Del Valle Rodríguez, A. *et al.* (2020) A network approach to analyze neuronal lineage and layer innervation in the *Drosophila* optic lobes. PLoS One. 15 (2): e0227897.
29. Poupault, C. *et al.* (2021) A combinatorial cis-regulatory logic restricts color-sensing Rhodopsins to specific photoreceptor subsets in *Drosophila*.. PLoS Genet. 17 (6): e1009613.
30. Oliver, K.M. *et al.* (2021) Molecular correlates of muscle spindle and Golgi tendon organ afferents. Nat Commun. 12 (1): 1451.
31. Zhu, H. *et al.* (2022) A comprehensive temporal patterning gene network in *Drosophila medulla.* neuroblasts revealed by single-cell RNA sequencing. Nat Commun. 13 (1): 1247.
32. Parmigiani, E. & Giachino, C. (2022) Genetic Inactivation of Notch1 Synergizes with Loss of Trp53 to Induce Tumor Formation in the Adult Mouse Forebrain. Cancers (Basel). 14 (21)Nov 02 [Epub ahead of print].
33. Zhang, Y. *et al.* (2023) Notch-dependent binary fate choice regulates the Netrin pathway to control axon guidance of *Drosophila* visual projection neurons. Cell Rep. 42 (3): 112143.
34. Liau, E.S. *et al.* (2023) Single-cell transcriptomic analysis reveals diversity within mammalian spinal motor neurons. Nat Commun. 14 (1): 46.
35. Zhang, Y. *et al.* (2023) Axon targeting of *Drosophila* medulla projection neurons requires diffusible Netrin and is coordinated with neuroblast temporal patterning. Cell Rep. 42 (3): 112144.

Further Reading

1. Adams, K.L. *et al.* (2015) Foxp1-mediated programming of limb-innervating motor neurons from mouse and human embryonic stem cells. Nat Commun. 6: 6778.

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for

	short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/4745-1051 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...) Biotin

Recommended Useful Reagents

RABBIT ANTI RED FLUORESCENT PROTEIN (AHP2987)
MOUSE ANTI mCHERRY (MCA6020)
RABBIT ANTI mCHERRY (AHP2326)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	**Worldwide**	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	**Europe**	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M381438:210512'

Printed on 18 Mar 2024