Product Datasheet

mCherry Antibody (1C51) - BSA Free
NBP1-96752

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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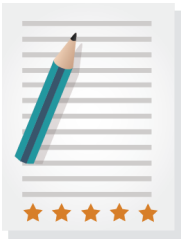
Updated 2/23/2025 v.20.1



NBP1-96752

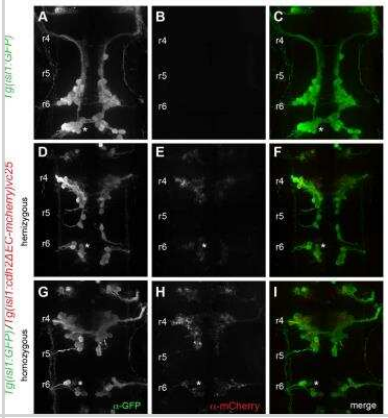
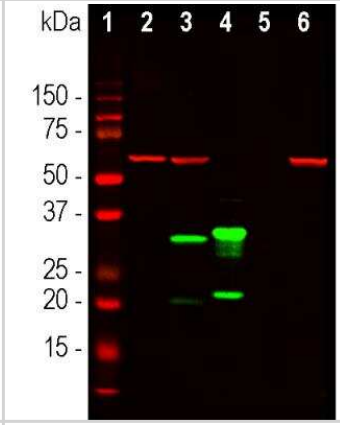
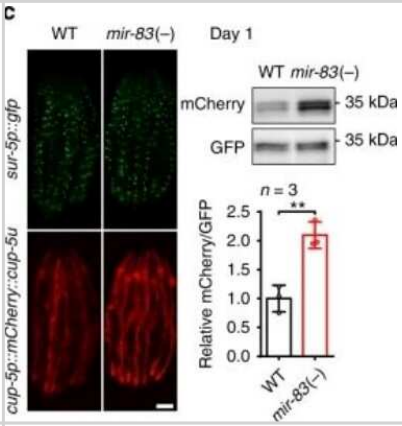
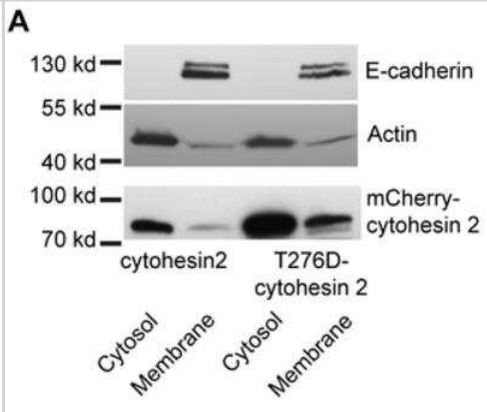
mCherry Antibody (1C51) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1C51
Preservative	0.035% Sodium Azide
Isotype	IgG2a
Purity	Protein G purified
Buffer	50% PBS, 50% glycerol
Target Molecular Weight	27 kDa

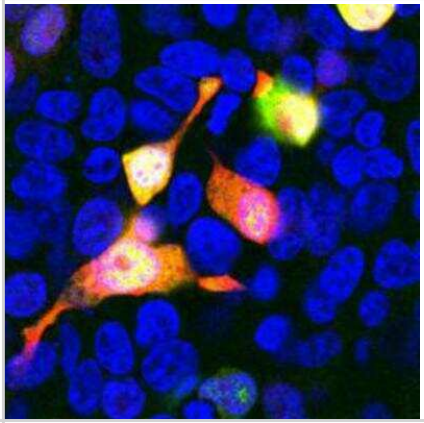
Product Description	
Host	Mouse
Species	Non-species specific
Specificity/Sensitivity	This mCherry Antibody (1C51) does not cross react with GFP.
Immunogen	This mCherry Antibody (1C51) was developed against recombinant full-length mCherry purified from E. coli.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Knockout Validated, Single Cell Western
Recommended Dilutions	Western Blot 1:1000 - 1:2000, Flow Cytometry, Immunohistochemistry 1:500, Immunocytochemistry/ Immunofluorescence 1:500, Immunoprecipitation, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Knockout Validated, Single Cell Western 100 ug/mL
Application Notes	Use in Flow reported in scientific literature (PMID:33335127). Use in IHC and IHC-P reported in scientific literature (PMID: 27396338 and 27716840 respectively). mCherry antibody validated for IHC-Frozen from a verified customer review. Use in Immunoprecipitation reported in scientific literature (PMID: 33008892). Use in Knockout Validation was reported in scientific literature (PMID: 32547960).

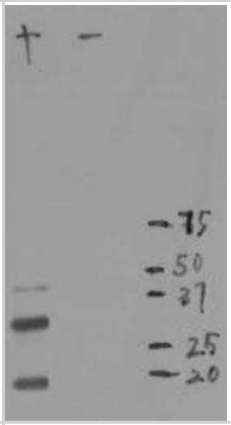
Images

Immunohistochemistry: mCherry Antibody (1C51) [NBP1-96752] - Cadherin-2 is required cell autonomously for caudal migration of FBMNs. (A-I) Whole-mount immunocytochemistry showing dorsal views of Tg (isl1:GFP) (A-C) and Tg (isl1:cdh2_EC-mCherry)vc25 transgenic embryos (D-I) at 38 hpf embryos. Embryos are labeled with a-GFP (green) (A,D,G) and a-mCherry (red) (B,E,H) antibodies. (A-C) Wild-type Tg (isl1:GFP) embryos with FBMNs fully migrated into r6. (D-I) Defective caudal migration of FBMNs in Tg (isl1:GFP)/Tg(isl1:cdh2_EC-mCherry) vc25 embryos carrying one copy of the transgene (hemizygous) or two copies (homozygous). Image collected and cropped by CiteAb from the following publication (//doi.org/10.1371/journal.pone.0164433) licensed under a CC-BY license.	
Western Blot: mCherry Antibody (1C51) [NBP1-96752] - Analysis of HEK293 cell lysates and recombinant protein solutions using mCherry antibody, dilution 1:1,000 (Green). [1] protein standard, [2] HEK293, [3] HEK293 cells transfected with mCherry-HA construct, [4] mCherry recombinant protein, [5] GFP recombinant protein, and [6] HEK293 transfected with GFP construct. Major band at about 30 kDa corresponds to mCherry protein (predicted molecular weight: 27 kDa). mCherry antibody does not react with GFP protein. The same blot was simultaneously probed with chicken HSP60 pAb, dilution 1:5,000 in red which reveals band at 60 kDa seen only in cell lysates.	
Western Blot: mCherry Antibody (1C51) [NBP1-96752] - Fluorescent signals and immunoblots of the dual fluorescence reporter of cup-5 32-UTR in WT worms and mir-83(-) mutants at day 1 of adulthood. Quantification is from the western blots. GFP blots and WT worms serve as controls for loading and normalization respectively. Scale bar: 100 i1/4m. n = 3 independent experiments. Image collected and cropped by Citeab from the following publication (A secreted microRNA disrupts autophagy in distinct tissues of Caenorhabditis elegans upon ageing. Nat Commun (2019) licensed under a CC-BY license.	
Western Blot: mCherry Antibody (1C51) [NBP1-96752] - Threonine 276 is required for the intramolecular interaction, and for inhibition of membrane binding. Mutation of threonine 276 to aspartic acid promotes the association of cytohesin 2 with membranes. MDCK cells were transfected with constructs encoding mCherry-tagged wild-type or T276D cytohesin 2 and fractionated into cytosol and total membranes. The fractions were Western blotted with mouse anti-mCherry, mouse anti-E-cadherin and mouse anti-actin. Image collected and cropped by CiteAb from the following publication (doi.org/10.1371/journal.pone.0082084) licensed under a CC-BY license.	

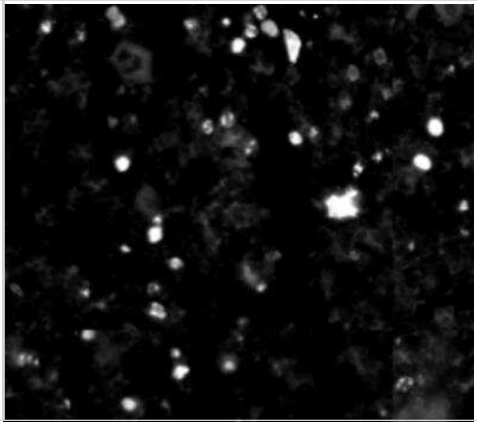
Immunocytochemistry/Immunofluorescence: mCherry Antibody (1C51) [NBP1-96752] - HEK293 cells transfected with mCherry and visualized in red. The cells were stained with NBP1-96752 in the green channel, and visualized using a confocal microscope. Transfected cells are yellow, showing overlap of the mCherry and NBP1-96752. Untransfected HEK293 cells do not express Cherry and do not stain with the antibody, but their nuclei can be visualized using a DNA stain (blue).



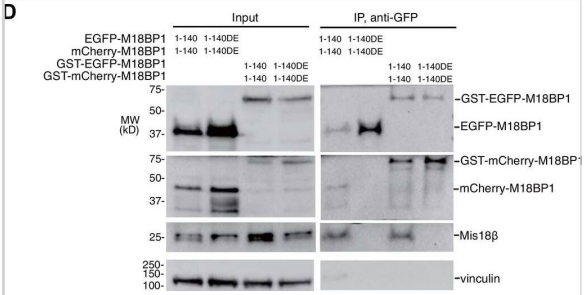
Western Blot: mCherry Antibody (1C51) [NBP1-96752] - WB assay of the crude extract of HEK293 cells transfected with pFin-EF1-mCherry vector (lane +) and an equal amount of protein extract from untransfected HEK293 cells (lane -). NBP1-96752 binds a major band running at about 28 kDa (observed molecular weight) corresponding to intact full-length mCherry. The two other bands are clearly processed forms of mCherry as they are not present in non-transfected HEK293 cells.



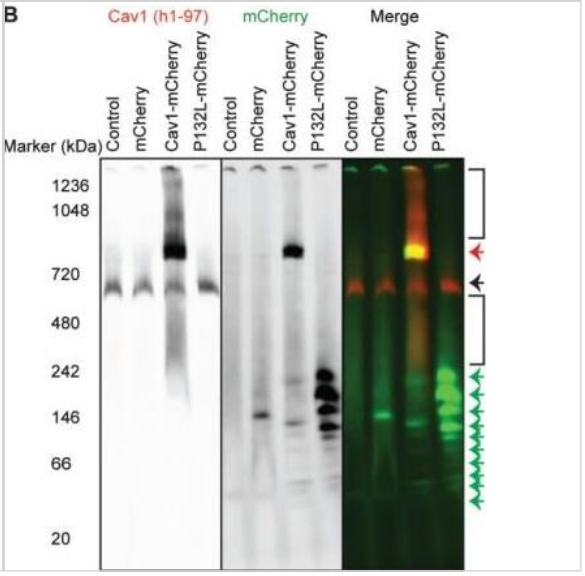
Immunohistochemistry-Frozen: mCherry Antibody (1C51) [NBP1-96752] - Mouse Bone Marrow Sections (Femur). Fixed-frozen and decalcified. tdTomato reporter transgenic mice. tdTomato in hematopoietic cells were detected by anti-mCherry antibody. Antibody is cross-reactive and works well for fixed-frozen bone marrow. Background is low. IHC-Fr image submitted by a verified customer review.



Western Blot: mCherry Antibody (1C51) [NBP1-96752] - Mis18α:Mis18β-hexamer mediates dimerization of M18BP1.(A) Analytical SEC results of M18BP11–140-MBP (cyan), M18BP11–228 -MBP (red), Mis18α:Mis18β:M18BP11–140-MBP (purple), Mis18α:Mis18β:M18BP11–228-MBP (green). The elution volumes of thyroglobulin (670 kD), ferritin (440 kD), catalase (240 kD) & ovalbumin (44 kD) are shown as standards. Red lines indicate fractions collected for Tricine–SDS-PAGE analyses. Gels were stained with CBB. (B) Sedimentation velocity AUC results of the same samples used in the analytical SEC experiments (panel A). The best-fit size distributions are shown with the colors indicated in panel A. Data profiles used for curve-fitting analyses are shown in Figure 7—figure supplement 1. (C) Summary table of the results obtained from the AUC experiments of panel B. Sed. coef., sedimentation coefficient; MWobs., observed molecular weight; MWtheo., theoretical molecular weight. (D) Western blot results of co-immunoprecipitation experiments using GFP-Trap_A beads. HeLa CENP-A-SNAP + EGFP-M18BP11–140-P2A-T2A-mCherry-M18BP11–140, EGFP-M18BP11–140/T40D/S110E-P2A-T2A-mCherry-M18BP11–140/T40D/S110E, GST-EGFP-M18BP11–140-P2A-T2A-GST-mCherry-M18BP11–140, or GST-EGFP-M18BP11–140/T40D/S110E-P2A-T2A-GST-mCherry-M18BP11–140/T40D/S110E were analyzed.DOI:http://dx.doi.org/10.7554/eLife.23352.014Data profiles for AUC experiments.Best-fitting results of the sedimentation velocity AUC data of M18BP11–140-MBP, M18BP11–228-MBP, Mis18α:Mis18β:M18BP11–140-MBP, and Mis18α:Mis18β:M18BP11–228-MBP. Residuals represent the deviation of the continuous c(s) distribution model from the observed signals. The values of RMSD for data fitting are shown.DOI:http://dx.doi.org/10.7554/eLife.23352.015 Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/28059702), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: mCherry Antibody (1C51) [NBP1-96752] - The oligomerization state of overexpressed Cav1 varies as a function of its tag. COS-7 cells expressing the indicated constructs were lysed in digitonin & subjected to BN-PAGE followed by western blotting for Cav1 (red) & either GFP, mCherry or myc (green). A) Cells were either left untransfected (‘control’) or transfected with EGFP, Cav1-GFP or P132L-GFP. B) As in (A) except cells were transfected with the indicated mCherry constructs. C) As in (A) except cells were transfected with Cav1 -myc or P132L-myc. Figures are representative of two independent experiments. Red arrows indicate the high molecular weight band positive for both tag antibodies & Cav1 antibodies (h1-97 or 2297). Black arrows indicate the high molecular weight band only positive for Cav1 antibodies (h1-97 or 2297). Green arrows indicate the low molecular weight bands only positive for FP tag antibodies. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/25639341), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Chen H, Ahmed S, Zhao H, Elghobashi-Meinhardt N et Al. Structural and functional insights into Spns2-mediated transport of sphingosine-1-phosphate Cell 2023-05-24 [PMID: 37224812]

Mukherjee S, Brulet R, Zhang L et Al. REST regulation of gene networks in adult neural stem cells Nat Commun 2016 -11-07 [PMID: 27819263] (Chromatin Immunoprecipitation, Western Blot, Immunocytochemistry, Immunocytochemistry/ Immunofluorescence)

Liang S, Varrecchia M, Ishida K et Al. Correction: Evaluation of Schistosome Promoter Expression for Transgenesis and Genetic Analysis PLoS One 2019-02-15 [PMID: 30768652]

Ulferts R, Marcassa E, Timimi L Et al. Subtractive CRISPR screen identifies the ATG16L1/vacuolar ATPase axis as required for non-canonical LC3 lipidation Cell reports 2021-10-26 [PMID: 34706226]

Biligiri KK, Sharma NR, Mohanty A et Al. A cytoplasmic form of EHMT1N methylates viral proteins to enable inclusion body maturation and efficient viral replication PLoS Biol 2024-11-19 [PMID: 39509467]

Lowe V, Wisniewski L, Sayers J et Al. Neuropilin 1 mediates epicardial activation and revascularization in the regenerating zebrafish heart Development 2019-07-01 [PMID: 31167777]

Shields KE, Ranava D, Tan Y et Al. Epitranscriptional m6A modification of rRNA negatively impacts translation and host colonization in Staphylococcus aureus PLoS Pathog 2024-01-22 [PMID: 38252661]

Batabyal S, Kim S, Carlson M et al. Multi-Characteristic Opsin Therapy to Functionalize Retina, Attenuate Retinal Degeneration, and Restore Vision in Mouse Models of Retinitis Pigmentosa Translational Vision Science & Technology 2024-10-16 [PMID: 39412768]

Braun MM, Sheehan BK, Shapiro SL et al. Ca +2 and Nε-lysine acetylation regulate the CALR-ATG9A interaction in the lumen of the endoplasmic reticulum Scientific Reports 2024-10-26 [PMID: 39462136]

Tei R, Bagde SR, Fromme JC, Baskin JM Activity-based directed evolution of a membrane editor in mammalian cells Nature chemistry 2023-05-22 [PMID: 37217787]

M Andres-Alo, MR Ammar, I Butnaru, GM Gomes, G Acuña Sanh, R Raman, P Yuanxiang, M Borgmeyer, J Lopez-Roja, SA Raza, N Brice, TJ Hausrat, T Macharadze, S Diaz-Gonza, M Carlton, AV Failla, O Stork, M Schweizer, ED Gundelfing, M Kneussel, C Spilker, A Karpova, MR Kreutz SIPA1L2 controls trafficking and local signaling of TrkB-containing amphisomes at presynaptic terminals Nat Commun, 2019-11-29;10(1):5448. 2019-11-29 [PMID: 31784514]

Chen Y, Saito D, Suzuki T, Takemoto T An inducible germ cell ablation chicken model for high-grade germline chimeras bioRxiv 2023-06-15 [PMID: 37665168]

More publications at http://www.novusbio.com/NBP1-96752

Novus Biologicals USA
10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada
21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information
www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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NBP1-96752AF488	mCherry Antibody (1C51) [Alexa Fluor® 488]

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