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.

Reviews: 3 Publications: 99

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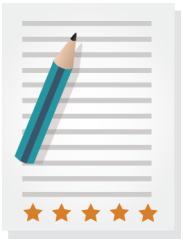
Updated 9/9/2025 v.20.1



NBP1-96752

mCherry Antibody (1C51) - BSA Free

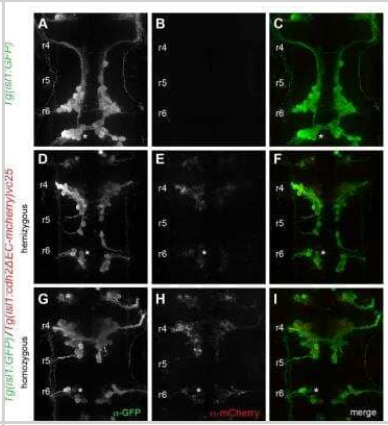
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1C51
Preservative	0.035% Sodium Azide
Isotype	IgG2a
Purity	Protein G purified
Buffer	50% PBS, 50% glycerol
Target Molecular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

Product Description	
Description	Novus Biologicals Knockout (KO) Validated Mouse mCherry Antibody (1C51) - BSA Free (NBP1-96752) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF, IP and ChIP. Anti-mCherry Antibody: Cited in 90 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
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.

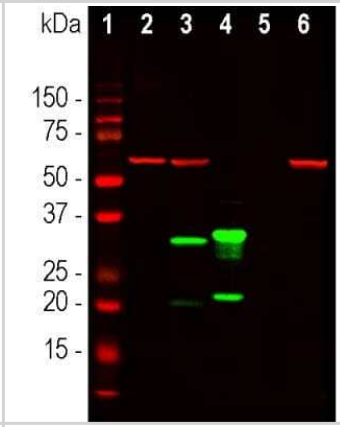
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Knockout Validated, Single Cell Western
Recommended Dilutions	Western Blot 1:1000 - 1:2000, 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

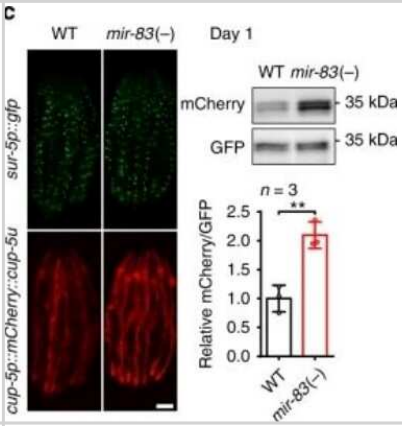
Immunohistochemistry: mCherry Antibody (1C51) [NBP1-96752] - Cadherin-2 is required cell autonomously for caudal migration of FBMNs. (A-I) Whole-mount immunocytochemistry showing dorsal views of Tg (isl1:GFP) (A-C) and Tg (isl1:cdh2_EC-mCherry)vc25 transgenic embryos (D-I) at 38 hpf embryos. Embryos 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.



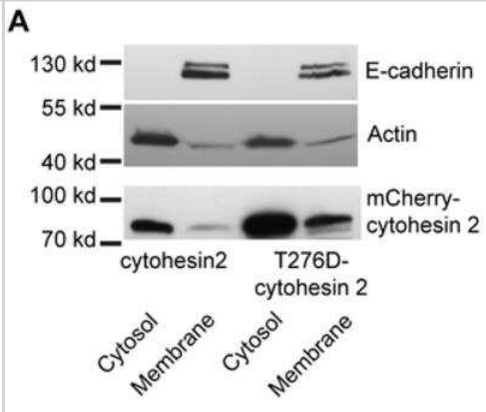
Western Blot: mCherry Antibody (1C51) [NBP1-96752] - Analysis of HEK293 cell lysates and recombinant protein solutions using mCherry antibody, dilution 1:1,000 (Green). [1] protein standard, [2] HEK293, [3] HEK293 cells transfected with mCherry-HA construct, [4] mCherry recombinant protein, [5] GFP recombinant 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.



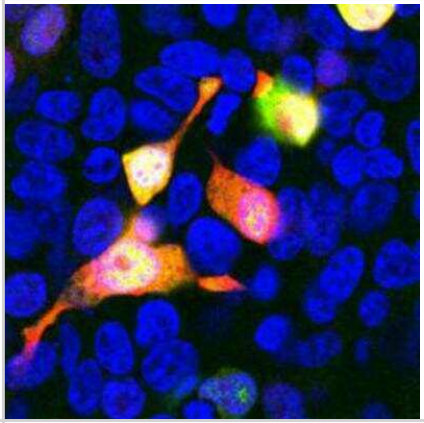
Western Blot: mCherry Antibody (1C51) [NBP1-96752] - Fluorescent signals and immunoblots of the dual fluorescence reporter of cup-5 32-UTR in WT worms and mir-83(-) mutants at day 1 of adulthood. Quantification is from the western blots. GFP blots and WT worms serve as controls for loading and normalization 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.



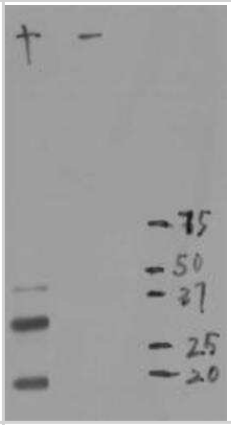
Western Blot: mCherry Antibody (1C51) [NBP1-96752] - Threonine 276 is required for the intramolecular interaction, and for inhibition of membrane binding. Mutation of threonine 276 to aspartic acid promotes the association of cytohesin 2 with membranes. MDCK cells were transfected with constructs encoding 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.



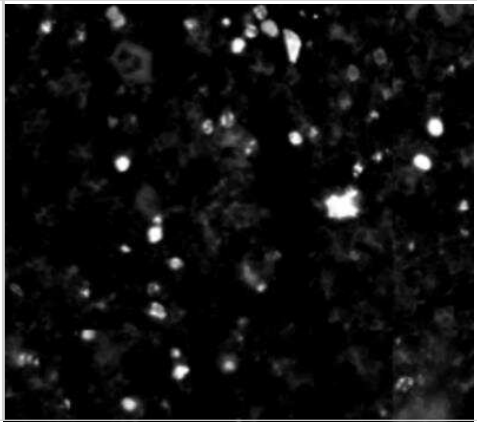
Immunocytochemistry/Immunofluorescence: mCherry Antibody (1C51) [NBP1-96752] - HEK293 cells transfected with mCherry and visualized in red. The cells were stained with NBP1-96752 in the green channel, and visualized using a confocal microscope. Transfected cells are yellow, showing overlap of the mCherry 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).



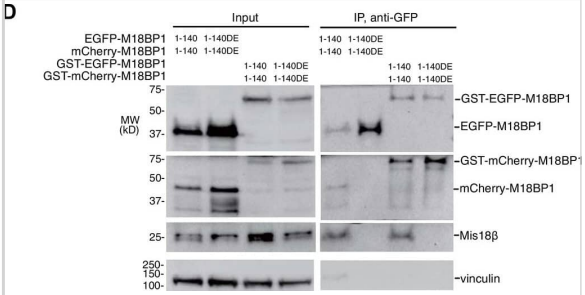
Western Blot: mCherry Antibody (1C51) [NBP1-96752] - WB assay of the crude extract of HEK293 cells transfected with pFin-EF1-mCherry vector (lane +) and an equal amount of protein extract from untransfected HEK293 cells (lane -). NBP1-96752 binds a major band running at about 28 kDa (observed molecular 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.



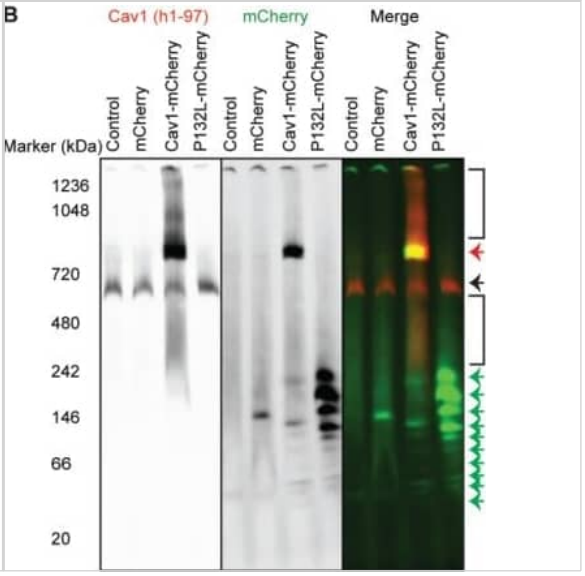
Immunohistochemistry-Frozen: mCherry Antibody (1C51) [NBP1-96752] - Mouse Bone Marrow Sections (Femur). Fixed-frozen and decalcified. tdTomato reporter transgenic mice. tdTomato in hematopoietic cells were detected by anti-mCherry antibody. Antibody is cross-reactive and works well for fixed-frozen bone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

Mulholland, EJ;Belnoue-Davis, HL;Valbuena, GN;Gunduz, N;Ligeza, A;Lin, M;Biswas, S;Gil Vasquez, E;Omwenga, S;Nasreddin, N;Hodder, MC;Wang, LM;Ng, AS;Jennings, E;Midwood, KS;Dedi, N;Irshad, S;Ridgway, RA;Phesse, TJ;East, J;Tomlinson, IP;Davies, GC;Sansom, OJ;Leedham, SJ; Epithelial GREMLIN1 disrupts intestinal epithelial-mesenchymal crosstalk to induce a wnt-dependent ectopic stem cell niche through stromal remodelling Nature communications 2025-06-04 [PMID: 40467544]

Erath J, Kemper D, Mugo E et al. A rapid, simple, and economical method for the isolation of ribosomes and translational machinery for structural and functional studies Nature Communications 2025-08-05 [PMID: 40764614]

Tiemann U, Tian C, Hermann F et al. Pancreatic alpha and beta cell fate choice is directed by apical-basal polarity dynamics. Developmental cell 2025-03-04 [PMID: 40056911]

Cmentowski V, Ciossani G, d'Amico E et al. A mechanism that integrates microtubule motors of opposite polarity at the kinetochore corona bioRxiv 2023-09-01 [PMID: 37163019] (Western Blot, Human)

Smeeton J, Natarajan N, Anderson T et al. Regeneration of Jaw Joint Cartilage in Adult Zebrafish Frontiers in Cell and Developmental Biology 2022-01-20 [PMID: 35127702] (Western Blot, Human)

Park J, Wu Y, Shao W et al. Poly(GR) interacts with key stress granule factors promoting its assembly into cytoplasmic inclusions Cell Reports 2023-08-29 [PMID: 37471224] (Western Blot, Human)

Martinez D, Zhu M, Guidry JJ et al. Mask, the Drosophila ankyrin repeat and KH domain-containing protein, affects microtubule stability Journal of Cell Science 2021-10-15 [PMID: 34553767] (Western Blot, Human)

Willis SD, Hanley SE, Doyle SJ et al. Cyclin C-Cdk8 Kinase Phosphorylation of Rim15 Prevents the Aberrant Activation of Stress Response Genes Frontiers in Cell and Developmental Biology 2022-03-31 [PMID: 35433688] (Western Blot, Human)

Zhang Y, Liang P, Yang L et al. Functional coupling between TRPV4 channel and TMEM16F modulates human trophoblast fusion eLife 2022-06-07 [PMID: 35670667] (Western Blot, Human)

Walstein K, Petrovic A, Pan D et al. Assembly principles and stoichiometry of a complete human kinetochore module Science Advances 2021-07-02 [PMID: 34193424] (Western Blot, Human)

Eldridge MJG, Hamon MA. Histone H3 deacetylation promotes host cell viability for efficient infection by Listeria monocytogenes PLOS Pathogens 2021-12-20 [PMID: 34929015] (Western Blot, Human)

Rao MB, Didiano D, Patton JG. Neurotransmitter-Regulated Regeneration in the Zebrafish Retina. Stem Cell Reports. 2017-03-06 [PMID: 28285877] (Western Blot, Human)

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

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NBP1-96778	Mouse IgG2a Isotype Control (M2A)

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