Product Datasheet

mCherry Antibody
NBP2-25158

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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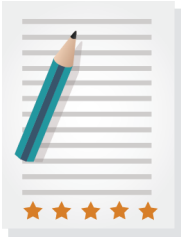
Updated 10/23/2024 v.20.1



NBP2-25158

mCherry Antibody

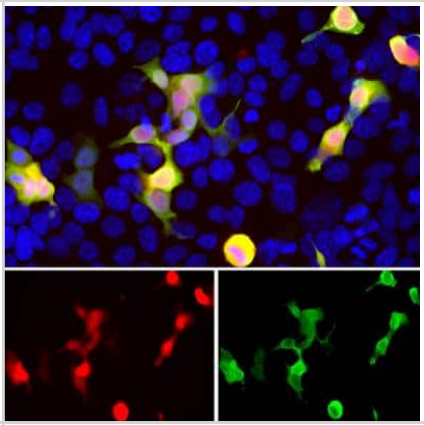
Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.035% Sodium Azide
Isotype	IgY
Purity	IgY purified
Buffer	Supplied as concentrated total IgY preparation from egg yolk. Exact concentration of target specific IgY is not quantifiable as the preparation contains both immune IgY specific for the target and also irrelevant, non-immune IgY.
Target Molecular Weight	27 kDa

Product Description	
Host	Chicken
Species	Non-species specific
Immunogen	This mCherry Antibody was developed against full length recombinant protein expressed in and purified from E. coli.
Notes	Chicken products cannot be exported to Canada.

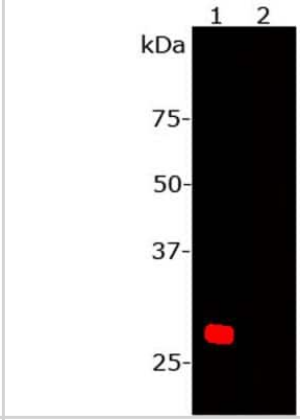
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunohistochemistry Free-Floating, Immunohistochemistry Whole-Mount
Recommended Dilutions	Western Blot 1:2000-1:5000, ELISA, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 1:1000, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Immunohistochemistry Free-Floating, Immunohistochemistry Whole-Mount
Application Notes	This mCherry antibody is useful for ICC/IF and Western Blot, where a band can be seen at ~28 kDa. Use in IHC-P, IHC-WhMt, and ELISA reported in scientific literature (PMID: 24924516, 29889212, and 29791133 respectively). Use in Immunohistochemistry-Frozen reported in scientific literature (PMID: 31591156). Use in Immunohistochemistry free floating reported in scientific literature (PMID: 31320449).

Images

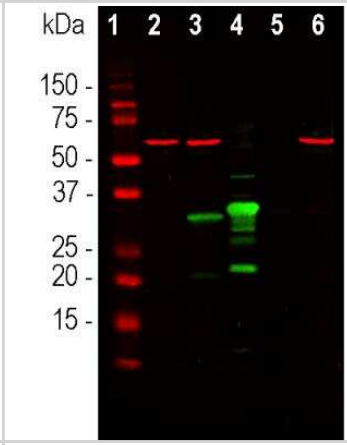
Immunocytochemistry/Immunofluorescence: mCherry Antibody [NBP2-25158] - HEK293 cells transfected with mCherry, stained with mCherry antibody and viewed in a confocal microscope. Most HEK293 cells are not transfected so only the nucleus of these cells can be visualized with a blue DNA stain. Cells which are transfected with mCherry are bright red, and staining with the mCherry antibody is shown in Green. The green antibody staining is only seen cells which express mCherry, and the superimposition of the green and red results in an orange signal. Interestingly stronger mCherry staining is seen in the nucleus, possibly due to degradation of some mCherry molecules releasing the low molecular weight mCherry fluorochrome.



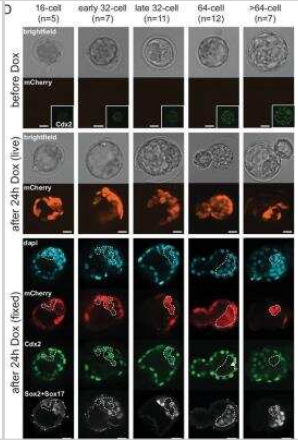
Western Blot: mCherry Antibody [NBP2-25158] - Analysis of NBP2-25158. Lane 1. Lysate of HEK293 cells transfected with pFin-EF1-mCherry vector. There is a strong clean band at about 29kDa corresponding to mCherry (predicted molecular weight ~27kDa). Lane 2, lysate of untransfected HEK293 cells show no protein bands. The NBP2-25158 antibody was used at 1:2,000 dilution.



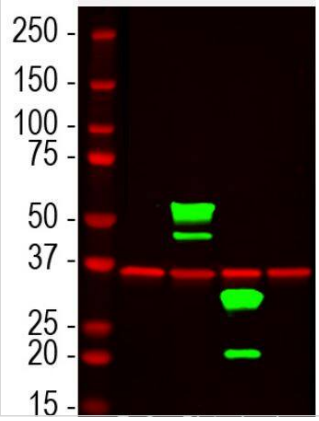
Western Blot: mCherry Antibody [NBP2-25158] - Analysis of HEK293 cell lysates, and recombinant protein solutions using chicken mCherry pAb, dilution 1:2000 (Green). [1] protein standard, [2] HEK293, [3] HEK293 cells transfected with an mCherry-HA constract, [4] pure recombinant mCherry protein (predicted molecular weight ~ 27kDa), [5] pure recombinant GFP protein and [6] HEK293 transfected with a GFP construct. The major band at about 30kDa corresponds to mCherry-HA protein and the slightly larger recombinant form runs at about 33kDa due to presence of a His tag and other vector derived sequence. The mCherry antibody reacts strongly with both mCherry constructs and does not react with GFP protein. The blot was simultaneously probed with mouse HSP60 mAb, dilution 1:10000 (Red), which reveals a band at 60kDa only in the cell lysates.



Immunocytochemistry/Immunofluorescence: mCherry Antibody [NBP2-25158] - Dox-inducible DN Lats2-IRES-mCherry transgenic embryos were imaged before Dox treatment (top panel) and the same embryo was imaged following 24 hr of Dox live (middle panel) and fixed/stained for lineage markers (bottom panel). A representative embryo is shown for each stage. Live mCherry is shown as an extended focus image, immunofluorescence stainings shown as single plane images. mCherry positive ICMs in mosaic transgenic embryos are circled with a dotted line. Arrow points to a rare ICM cell in a 64 cell stage-induced embryo with weak Cdx2 expression, which also co-expressed an ICM marker. Scale bar: 25 um. n indicates number of transgenic embryos analyzed. Image collected and cropped by CiteAb from the following publication (//pubmed.ncbi.nlm.nih.gov/28226240/) licensed under a CC-BY license.



Western blot analysis of HEK293 cell lysates using chicken pAb to mCherry, NBP2-25158, dilution 1:2,000, in green, and rabbit pAb to GAPDH, RPCA-GAPDH, dilution 1:5,000, in red: [1] protein molecular weight standard, [2] untransfected HEK293 control cells, [3] HEK293 cells transfected with pCI-Neo-mod vector expressing two tdTomato protein domains, [4] HEK293 cells transfected with pCI-Neo-mod vector expressing one mCherry-HA protein domain, and [5] HEK293 cells transfected with pCI-Neo-mod vector expressing one GFP domain. NBP2-25158 recognizes tdTomato and mCherry proteins revealing major bands at about 60kDa and 30kDa, but does not recognize GFP. The red band at 37kDa corresponds to GAPDH protein here used as a loading control.



Publications

M Petkovic, J Oses-Priet, A Burlingame, LY Jan, YN Jan TMEM16K is an interorganelle regulator of endosomal sorting Nat Commun, 2020-07-03;11(1):3298. 2020-07-03 [PMID: 32620747]

Rebecca A Symons, Fabio Colella, Fraser L Collins, Alexandra J Rafipay, Karolina Kania, Jessica J McClure, Nathan White, Iain Cunningham, Sadaf Ashraf, Elizabeth Hay, Kevin S Mackenzie, Kenneth A Howard, Anna H K Riemen, Antonio Manzo, Susan M Clark, Anke J Roelofs, Cosimo De Bari Targeting the IL-6–Yap–Snail signalling axis in synovial fibroblasts ameliorates inflammatory arthritis Annals of the Rheumatic Diseases 2022-02-01 [PMID: 34844926]

Lu Y, Shiau F, Yi W et al. Single-Cell Analysis of Human Retina Identifies Evolutionarily Conserved and Species-Specific Mechanisms Controlling Development Dev. Cell 2020-05-18 [PMID: 32386599]

Lenti, E;Genovese, L;Bianchessi, S;Maurizio, A;Sain, SB;di Lillo, A;Mattavelli, G;Harel, I;Bernassola, F;Hehlgans, T;Pfeffer, K;Crosti, M;Abrignani, S;Evans, SM;Sitia, G;GuimarAes-Camboa, N;Russo, V;van de Pavert, SA;Garcia-Manteiga, JM;Brendolan, A; Fate mapping and scRNA sequencing reveal origin and diversity of lymph node stromal precursors Immunity [PMID: 35358427]

Yupu Wang, Meike Lobb-Rabe, James Ashley, Purujit Chatterjee, Veera Anand, Hugo J Bellen, Oguz Kanca, Robert A Carrillo Systematic expression profiling of Dpr and DIP genes reveals cell surface codes in Drosophila larval motor and sensory neurons. Development (Cambridge, England) 2022-05-23 [PMID: 35502740]

Kai Li, Yanmeng Guo, Yayu Wang, Ruijun Zhu, Wei Chen, Tong Cheng, Xiaofan Zhang, Yinjun Jia, Ting Liu, Wei Zhang, Lily Yeh Jan, Yuh Nung Jan Drosophila TMEM63 and mouse TMEM63A are lysosomal mechanosensory ion channels Nature Cell Biology 2024-02-22 [PMID: 38388853]

Niemann P, Schiffer M, Malan D Et al. Generation and Characterization of an Inducible Cx43 Overexpression System in Mouse Embryonic Stem Cells Cells 2022-02-25 [PMID: 35203340]

Details:
Citation using the Non-Recombinant Monoclonal version of this antibody.

Rojek-Sito K Central amygdala - ventral tegmental area - cortical circuits mediate initiation and maintenance of social interaction Thesis 2023-01-01 (Immunohistochemistry Free-Floating)

Casoni F, Croci L, Marroni F et al. A spatial-temporal map of glutamatergic neurogenesis in embryonic cerebellar nuclei uncovers a high degree of cellular heterogeneity bioRxiv 2023-10-22

McKeon PN Less Is More: Alcohol Weakens Inhibitory Signaling to Strengthen Striatal Complex Output Thesis 2023-01-01

Magallanes J, Liu NQ, Zhang J et al. A new mouse model of post-traumatic joint injury allows to identify the contribution of Gli1+ mesenchymal progenitors in arthrofibrosis and acquired heterotopic endochondral ossification Frontiers in Cell and Developmental Biology 2022-08-24 [PMID: 36092701] (Immunocytochemistry/ Immunofluorescence)

Ninou E, Michail A, Politis PK. Long Non-Coding RNA Lacuna Regulates Neuronal Differentiation of Neural Stem Cells During Brain Development Frontiers in Cell and Developmental Biology 2021-11-24 [PMID: 34900989] (Immunocytochemistry/ Immunofluorescence)

More publications at http://www.novusbio.com/NBP2-25158

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NB7276	Goat anti-Chicken IgM Heavy Chain Secondary Antibody

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