

Catalogue No.

AB0040-200
AB0040-500

Qty:

600 µg
1.5 mg

Anti-mCherry

Source: Goat

General description: Goat polyclonal antibody to mCherry (Cherry fluorescent protein).

Alternative names: Cherry fluorescent protein, dsRed, red fluorescent protein, tdTomato antibody.

Form: Polyclonal antibody supplied as a 200 or 500 µl (3 mg/ml) aliquot in PBS, 20% glycerol and 0.05% sodium azide. This antibody is epitope-affinity purified from goat antiserum.

Immunogen: Purified recombinant peptide produced in E. coli.

Specificity: In 293HEK cells transfected with cds plasmid detects a band of 29 kDa by Western blot. This antibody recognizes very well tdTomato and does not recognize GFP (green fluorescent protein).

Reactivity: Reacts with Transfected cells proteins

Sample	WB	IHC (F)	IHC (P)	IF	ELISA	IEM
Transfected cells	+++	+++	+++	+++	ND	+++

+++ excellent, ++ good, + poor, ND not determined

Usage:

WB: 1:500-1:5,000
IF: 1:50-1:500
IHC (P): 1:50-1:500
IHC (F): 1:50-1:500
IEM: 1:50-1:500

Storage: For continuous use, store at 2-8 C for one-two days. For extended storage, store in -20 C freezer. Working dilution samples should be discarded if not used within 12 hours.

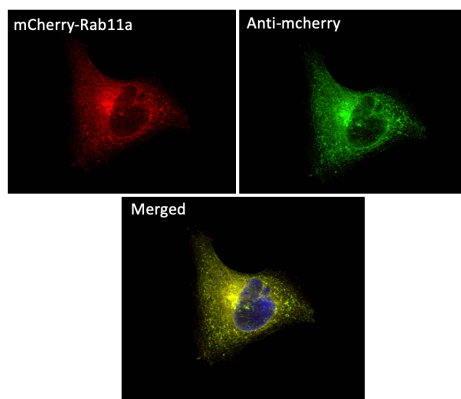
Special instructions: Avoid freeze/thaw cycles..

References:

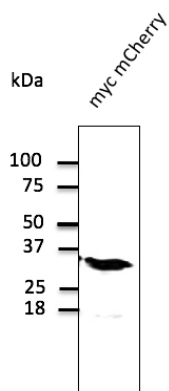
1. Takahashi TM, Hirano A, Kanda T, et al. *Cell Rep Methods* 2022 Nov PMID: 36452866
2. Letchuman S, Tucker A, Miranda D, et al. *eNeuro* 2022 Oct PMID: 36265906
3. Boudjadja MB, Culotta I, Paula GCD, et al. *Curr Biol* 2022 Sep PMID: 36182699
4. Bassi JK, Connelly AA, Butler AG, et al. *J Comp Neurol* 2022 Aug PMID: 35988033
5. Hermanns T, Graf-Boxhorn S, Poeck B et al. *Curr Biol* 2022 Jul PMID: 35914533
6. Yoshinaga S, Honda T, Kubo KI, et al. *Neurosci Res* 2022 Mar PMID: 35364133
7. Call CL, Neely SA, Early JJ, et al. *bioRxiv* Feb 2022
8. Ferreira JV, Soares AR, Ramalho J, et al. *Sci Adv* 2022 Mar PMID: 35333565
9. Wiegmann RP. PhD Thesis, Universitätsklinikum Hamburg Eppendorf, Hamburg, Germany 2021
10. Sun W, Choi I, Stoyanov S, et al. *Nat Commun* 2021 Oct PMID: 34663792
11. Pusic KM, Kraig RP, Pusic AD, et al. *PLoS One* 2021 Aug PMID: 34388189
12. Escrevente C, Bento-Lopes L, Ramalho JS, et al. *J Cell Sci* 2021 May PMID: 34002205
13. Sanchez-Aguilera A, Wheeler DW, Jurado-Parras T, et al. *PLoS Biol.* 2021 May PMID: 33956790
14. Kaise T and Kageyama R. *Gene Expression Patterns* Mar 2021 PMID: 33675998
15. Call CL and Bergles DE. *bioRxiv* 2021
16. Towler B, Pashler A, Haime H, et al. *bioRxiv* 2021
17. Yu Q, Du, M Zhang W, et al. *Cell Mol Gastroenterol Hepatol* 2020 Dec PMID: 33340715
18. Lewis EM, Stein-O'Brien GL, Patino AV, et al. *Neuron* 2020 Nov PMID: 33113347
19. Niu X, Liu L, Wang T, et al. *J Neurosci* 2020 Jul PMID: 32690615
20. Cheung P, Xiol J, Dill MT, et al. *Cell Stem Cell* 2020 Jul PMID: 32730753
21. Takahashi TM, Sunagawa GA, Soya S, et al. *Nature* 2020 Jun PMID: 32528181
22. MacDonald AJ, Holmes FE, Beall C, et al. *Glia* 2020 Jun PMID: 31880353
23. Ceto S, Sekiguchi KJ, Takashima Y, et al. *Cell Stem Cell* 2020 Jul PMID: 32758426
24. Mikedis MM, Fan Y, Nicholls PK, et al. *Elife* 2020 Jul 20 PMID: 32686646
25. Neubarth NL, Emanuel AJ, Liu Y, et al. *Science* 2020 Jun PMID: 32554568
26. Sun W, PhD Thesis, Otto von Guericke University Magdeburg, Germany 2020
27. Hastings RL, Massopust RT, Haddix SG. *Skelet Muscle* 2020 May PMID: 32381068
28. Liu CY, Tsai CJ, Yasugaki S, et al. *Neurosci Res* 2020 Apr PMID: 32283105
29. Cherqui S - US Patent App. 16/820,368, 2020
30. Yoon S, Parnell E, Kasherman M, et al. *Neuron* 2020 Feb PMID: 31813652
31. Touahri Y, Dixit R, Kofoed RH, et al. *Theranostics* 2020 PMID: 32194850
32. Nguyen R, Venkatesan S, Binko M, et al. *J Neurosci* 2020 Jan PMID: 32005764
33. Wu JS, Yi E, Manca M, et al. *Elife* 2020 Jan PMID: 31975688
34. Bai L, Mesgarzadeh S, Ramesh KS, et al. *Cell* 2019 Nov PMID: 31730854
35. Riera TI, PhD Thesis, University of Munich, Germany 2019
36. Paixao S, Loschek L, Gaitanos L, et al. *Neuron* 2019 Oct PMID: 31586516
37. Pedone E, Postiglione L, Aulicino F, et al. *Nat Commun* 2019 Oct PMID: 31578371
38. Ceto S, Sekiguchi KJ, Takashima, Y, et al. *bioRxiv* Oct 2019
39. Adler AF, Cardoso T, Nolbrant S, et al. *Cell Rep* 2019 Sep PMID: 31553914
40. Zheng Y, Liu P, Bai L, et al. *Neuron* 2019 Aug PMID: 31248728
41. Hsu KS, Otsu W, Li Y, et al. *Sci Rep* 2019 Aug PMID: 31439888
42. Rusu P, Shao C, Neuerburg A, et al. *Cell Stem Cell* 2019 Jul PMID: 31303549
43. Binder S, Molle M, Lippert M. *J Neurosci* 2019 Jul PMID: 31285301
44. Pepe-Mooney BJ, Dill MT, Alemany A, et al. *Cell Stem Cell* 2019 May PMID: 31080134
45. Cherqui S - US Patent App. 16/082,487, 2019
46. Krause T, Spindler L, Poeck B, et al. *Curr Biol* 2019 May PMID: 31104933
47. Balmer TS, Trussell LO. *Elife* 2019 Apr. PMID: 30994458
48. Zhou X, Oishi Y, Cherasse Y, et al. *Neurochem Int* 2019 Mar PMID: 30690114
49. Otsu W, Hsu YC, Chuang JZ, et al. *J Neurosci* 2019 Feb PMID: 30819798
50. Kumamaru H, Lu P, Rosenzweig ES, et al. *Cell Rep* 2019 Feb PMID: 30811984
51. MacDonald AJ, Holmes FE, Beall C, et al. *bioRxiv* 2019
52. Guerrero-Juarez CF, Dedhia PH, Jin S, et al. *Nat Commun* 2019 Feb PMID: 30737373

53. Whissell PD, Bang JY, Khan I, et al. *eNeuro* 2019 Jan-Feb. PMID: 30834305
54. Gao R, PhD Thesis, Northwestern University, USA 2018
55. Deshpande D, PhD Thesis, Ruperto-Carola University of Heidelberg, Germany 2018
56. Pedone E, Rocca DL, Postiglione L, et al. *bioRxiv* 404699; Sept 2018
57. D'Agostino G, Lyons D, Cristiano C, et al. *Cell Metab* 2018 Aug PMID: 30146485
58. Al-Osta I, Mucha M, Pereda D, et al. *Front Cell Neurosci* 2018 Jul PMID: 30072872
59. Movahedi K, Wiegmann R, De Vlaminck K, et al. *Biotechnol Bioeng* 2018 Jul PMID: 29573361
60. Cardoso T, Adler A, Mattsson B, et al. *J Comp Neurol* 2018 Jul PMID: 30007046
61. Miesfeld JB, Moon MS, Riesenberger AN, et al. *Sci Rep* 2018 Jul PMID: 29977079
62. Liu XS, Wu H, Krzisch M, et al. *Cell* 2018 Feb PMID: 29456084
63. Miesfeld JB, Glaser T, Brown NL. *Gene Expr Patterns* 2017 Dec PMID: 29225067
64. Lin B, Coleman JH, Peterson JN, et al. *Cell Stem Cell* 2017 Nov PMID: 29174332
65. Oliveira CR, Lemaitre R, Tazaki A, et al. *Dev Biol* 2017 Oct PMID: 29198566
66. Rocca CJ, Goodman SM, Dulin JN, et al. *Sci Transl Med* 2017 Oct PMID: 29070698
67. Kodani S, Soya S, Sakurai T. *J Neurosci* 2017 Jun PMID: 28642284
68. Saito M, Otsu W, Hsu KS, et al. *EMBO Rep* 2017 Jun PMID: 28607034
69. Castellano JM, Mosher KI, Abbey RJ, et al. *Nature* 2017 Apr PMID: 28424512
70. Shevelkin AV, Terrillion CE, Abazyan BN, et al. *Neurobiol Dis* 2017 Apr PMID: 28392471
71. Agarwal A, Wu PH, Hughes EG, et al. *Neuron* 2017 Feb PMID: 28132831
72. Abaira VE, Kuehn ED, Chirila AM, et al. *Cell* 2017 Jan PMID: 28041852
73. Krishnamurthy VV, Khamo JS, Mei W, et al. *Development* 2016 Nov PMID: 27697903
74. Espinosa-Medina I, Saha O, Boismoreau F, et al. *Science* 2016 Nov. Supplemental Information, PMID: 27856909
75. Falkner S, Grade S, Dimou L, et al. *Nature* 2016 Oct PMID: 27783592
76. Vyas P, Wu JS, Zimmerman A, et al. *J. Assoc. Res. Otolaryngol* 2016 Sep PMID: 27696081
77. Sargiannidou I, Kim GH, Kyriakoudi S, et al. *Neurogenetics* 2015 Jul PMID: 25771809
78. Merienne N, Delzor A, Viret A, et al. *Gene Ther* 2015 Oct PMID: 26109254
79. Viheriä T, MSc Thesis, University of Tampere, Finland 2014
80. Matlac DM, PhD Thesis, University of Lubeck, Germany 2021
81. Balmer TS, Trussell LO. *Bio Protoc* 2022 May PMID: 35813023
82. Dutta SB, Linneweber GA, Andriatsilavo M, et al. *Curr Bio* 2023 Jan PMID: 36640763
83. Rankin G, Harvard University, Cambridge, USA 2023
84. Nguyen R, Sivakumaran S, Lambe E, et al. *bioRxiv* 2023
85. Zhang H, Ishii K, Shibata T, et al. *bioRxiv* 2023
86. Smit, M, Thesis fully internal (DIV), University of Groningen 2023
87. Marty-Lombardi S, Lu S, Ambroziak W, et al. *Nat Metab* 2024 Mar PMID: 38443593
88. Duarte F, Ramosaj M, Hasanovic Ed, et al. *Mol Ther Methods Clin Dev* 2023 Mar PMID: 37090478
89. Tasnim A, Alkislar I, Hakim R, et al. *bioRxiv* 2023 May PMID: 37214862
90. Prokofeva K, Saito YC, Niwa Y, et al. *J Neurosci* 2023 May PMID: 37117013
91. Meltzer S, Boulanger KC, Chirila AM, et al. *Neuron* 2023 Jun PMID: 37028432
92. Cai B, Wu D, Xie H, et al. *Cell Res* 2023 Jun PMID: 37311832
93. Luo Y, Wang L, Cao Y, et al. *Transl Psychiatry* 2024 Aug PMID: 39107319
94. Wolfson RL, Abdelaziz A, Rankin G, et al. *Cell* 2023 Aug PMID: 37541195
95. Burt KG, Kim MKM, Viola DC, et al. *bioRxiv* 2023 Aug PMID: 37609194
96. Melo MR, Wykes AD, Connelly AA, et al. *Elife* 2023 Sep PMID: 37772793
97. Handler A, Zhang Q, Pang S, et al. *Neuron* 2023 Oct PMID: 37725982
98. Ohno-Shosaku T, Yoneda M, Maejima T, et al. *Neuroscience* 2023 Nov PMID: 37778689
99. Espejo M, David SV. *Curr Res Neurobiol* 2023 Nov PMID: 38152461
100. Hariani HN, Algstam AB, Candler CT et al. *bioRxiv* 2023 Dec PMID: 37090638
101. Regio S, Vachey G, Goñi E, et al. *Brain Commun* 2023 Dec PMID: 38116140
102. Chinchalongporn V, Vasan L, Saleh F, et al. *Biorxiv* Jan24
103. Sell GL, Barrow SL, McAllister AK. *bioRxiv* 2024 PMID: 38496590
104. Hariani HN, Algstam AB, Candler CT et al. *Elife* 2024 Jan PMID: 38270517

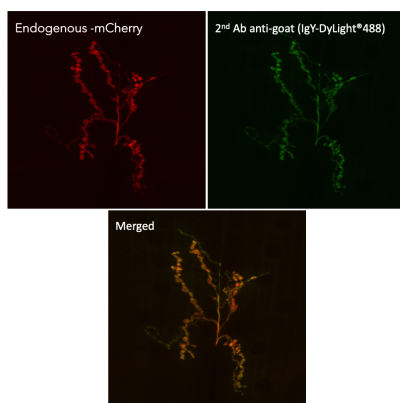
105. Zhang H, Ishii K, Shibata T, et al. Development 2024 Jan PMID: 38265146
106. Launhardt L, Uhlenberg J, Stellmach H, et al. Plant J 2024 Jan PMID: 37805827
107. Tasnim A, Alkislar I, Hakim R, et al. Nat Neurosci 2024 Jan PMID: 38233682
108. Hasegawa E, Li Y, Sakurai T. Neurosci Res 2024 Mar PMID: 37696450
109. Costa A, Ducourneau E, Curti L, et al. Sci Rep 2024 May PMID: 38760416
110. Roy K, Zhou X, Otani R, et al. Nat Commun 2024 Apr PMID: 38688901
111. Miyasaka A, Kanda, T, Nonaka N, et al. bioRxiv 2024
112. Buron J, Linossier A, Gestreau C. bioRxiv 2024
113. Costa A, Ducourneau E, Curti L, et al. Sci Rep 2024 May PMID: 38760416



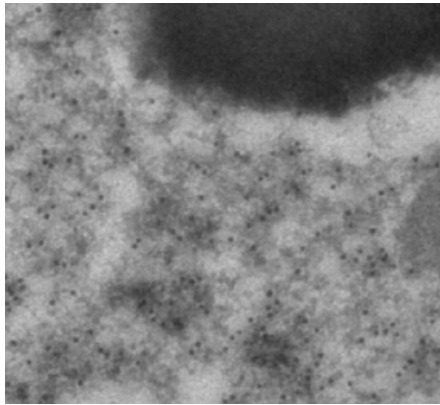
Immunofluorescence – anti-mCherry Ab using MCR cells transduced with mCherry-Rab11a; cells were fixed with methanol and anti-Rab11a at 1/250;



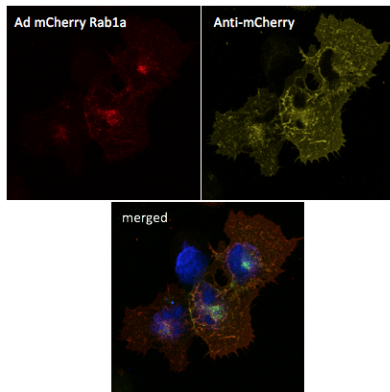
Anti-mCherry Ab at 1/1,000 dilution; 293 cells transfected with myc-mCherry;



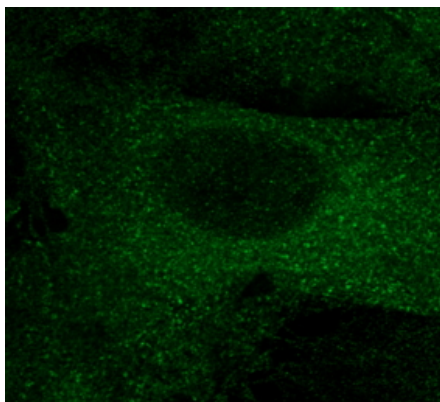
Immunofluorescence in Drosophila larvae NMJ muscle 6/7 expressing mCherry in neurons (DyGlutmcherry) using 1st Ab anti-mCherry at 1/1,000 and 2nd Ab anti-goat IgY conjugated to DyLight®488 at 1/500;



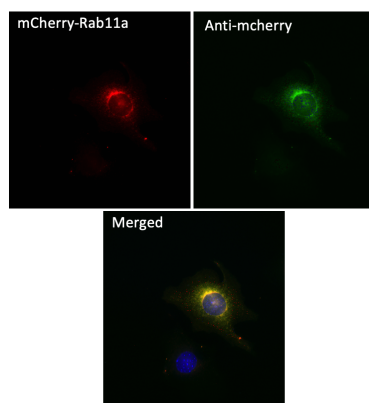
Immunogold labeling of RPE, in vivo injected with mCherry expressing vector;



293 HEK cells transduced with Ad mCherry Rab1a and stained with anti-mCherry;



Anti-mCherry Ab in COS-7 cells transfected with mCherry-EEA1 at 1/100 dilution;



Immunofluorescence – anti-mCherry Ab using hCEC cells transduced with mCherry-Rab11a; cells were fixed with methanol and anti-Ra11a at 1/250;

For research use only, not for diagnostic use

In order to produce high specific antibodies SICGEN has invested a lot of time and effort into selecting immunogen sequences. SICGEN has decided to protect this information by not publishing it on the website. However, these sequences are available on request.