Red fluorescent protein (mCherry) pAb epitope purified

Quality Control Certificate of Analysis
Catalogue No.:A010-mCherry-5
Unit Size: 5 µg
Lot No: 0612-2

Background: Anti-mCherry Ab is a polyclonal antibody raised in rabbit by immunisation with GST-mCherry and affinity purified against MBP-mCherry cross linked to cyanogen bromide beads (Wiesner, C. *et al*. 2010). It produces exceptional staining for mCherry in bioimaging applications at high dilutions.

Description: Lyophilised **Rabbit** polyclonal Ab to mCherry

Immunogen: Recombinant GST-mCherry

Antibody Isotype: IgG

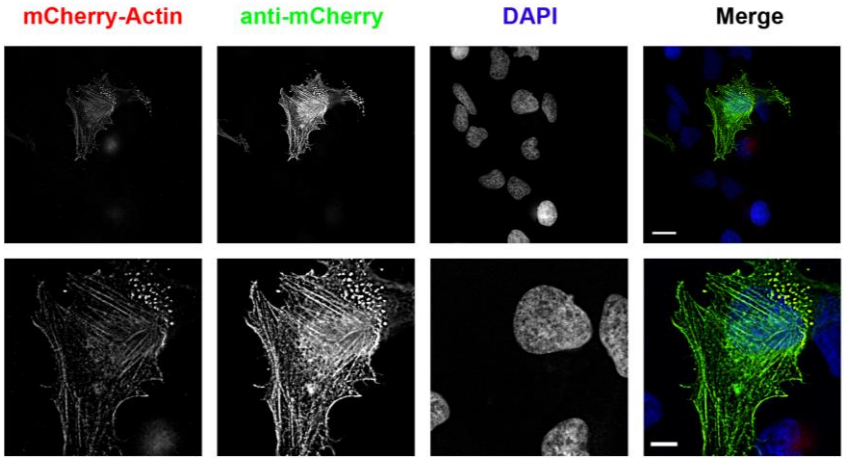
Antibody Purity: Affinity Purified using purified MBP-mCherry covalently coupled to cyanogen bromide activated agarose

Specificity: A010-mCherry will recognise RFP (dsRed) and mCherry

Vial Constituents: 5 µg of lyophilised Affinity purified A010-mCherry-5 in PBS + stabilizer.

Storage Instructions: Lyophilised antibody is stable at 4 °C when stored with desiccant. Reconstitute lyophilised powder in **6.25 µl** of 18 MΩ H_2O, aliquot and store frozen at -80 °C for 1 year. Avoid freeze - thaw cycles.

Tested Applications: **IF 1:500-5000**



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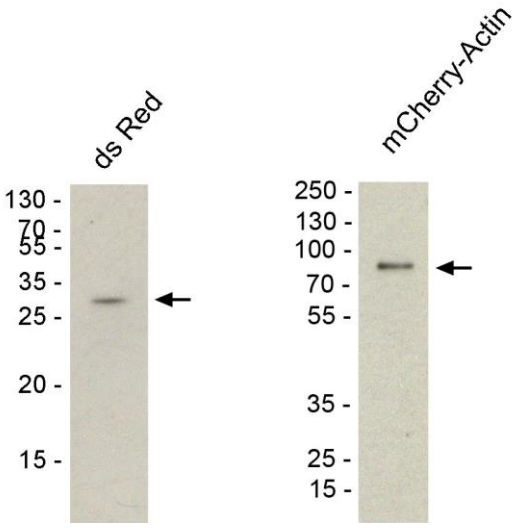
IF image showing the signal amplification of mCherry-Actin using anti-mCherry antibody (A010-mCherry). Hela cells with low level mCherry-Actin expression were produced and fixed in PFA, permabilized using 0.1% Tween® 20 in PBS + 1% BSA and stained using 1:500 anti-RFP antibody for 1 hour in PBS + 1% BSA. Cells were washed and stained for 1 hour using 1:200 anti-Rabbit Alexa fluor 488, washed and mounted using mounting media with DAPI then imaged using an Olympus DeltaVision deconvolution microscope using a 40X (top) and 100X (bottom) lens. Scale bar 20 µm. We saw a dramatic improvement to the brightness and staining clarity in the red channel (anti-RFP) compared with the green channel (mCherry-Actin low level expression).



WB using A010-mCherry against AD-293 cells expressing dsRed (left) or mCherry-Actin (right). AD-293 cells in a 2cm dish (6 well plate) were transfected with an mCherry-Actin construct and incubated for 24 hours. Cells were harvested in 500 µl of SDS loading buffer and boiled. 10 µl loaded per lane.

Related Products: A010-pGFP-5 / 50

Background References: WIESNER, C., FAIX, J., HIMMEL, M., BENTZIEN, F. & LINDER, S. 2010. KIF5B and KIF3A/KIF3B kinesins drive MT1-MMP surface exposure, CD44 shedding, and extracellular matrix degradation in primary macrophages. *Blood,* 116, 1559-69.