

anti-Mammalian mCherry Monoclonal Antibody

mCherry, monoclonal antibody, mouse

CATALOG #	REACTIVITY	APPLICATIONS
AAA76569	Mammalian	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry

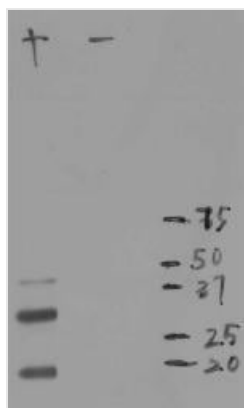
PRODUCT SYNONYMS

mCherry; Monoclonal Antibody; monoclonal antibody; mouse; mCherry - Mouse; anti-mCherry antibody

PRODUCT SPECIFICATIONS

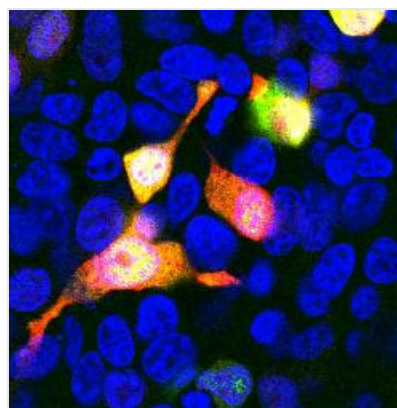
Reactivity	Mammalian
Clonality	Monoclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid
Sequence Length	228
Applicable Applications for anti-mCherry antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry)

IMAGES



Application Data

Image: Blot of crude extract of HEK293 cells transfected with pFin-EF1-mCherry vector in lane labelled "+". The "-" lane is a blot of an equal amount of protein extract from untransfected HEK293 cells. MCA-1C51 binds a major band running at ~28 kDa 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



Application Data

Image: HEK293 cells transfected with mCherry and visualized in red. The cells were stained in the green channel, and visualized using a confocal microscope. Transfected cells are yellow, showing overlap of the mCherry and the antibody. Untransfected HEK293 cells do not express mCherry and do not stain with the antibody, but their nuclei can be visualized using a DNA stain (blue). Blot and transfected cells courtesy of the Semple-Rowland lab at the University of Florida.

ADDITIONAL INFORMATION

Related Product Information for anti-mCherry antibody	mCherry is derived from proteins originally isolated from Cnidarians (jelly fish, sea anemones and corals), and is used as a fluorescent tracer in transfection and transgenic experiments. The prototype for these fluorescent proteins is Green Fluorescent Protein (GFP), which is a ~27kDa protein isolated originally from the jellyfish Aequoria victoria. The mCherry protein is derived from DsRed, a red fluorescent protein related to GFP isolated from so-called disc corals of the genusDiscosoma. DsRed is similar in size and properties to GFP, but, obviously, produces a red rather than a green fluorochrome. Several further cycles of mutation, directed modification and evolutionary selection produced mCherry, which has an excitation maximum at 587 nm and and emission maximum at 610 nm (4). We expressed the mCherry protein sequence shown in reference 4 in bacteria, purified out the mCherry and raised this rabbit polyclonal antibody. This was affinity purified and was found to stain a band of the expected size in HEK293 cells transfected with the pFin-EF1-mCherry vector designed to express mCherry. As shown below, the antibody does not stain any protein band in untransfected HEK293 cells.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1041520567
NCBI Official Full Name	mCherry

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/mcherry-antibody-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-elisa/76569>