

anti-Mammalian mCherry Antibody

mCherry, Purified Chicken IgY

CATALOG # AAA76565	REACTIVITY Mammalian	APPLICATIONS Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry
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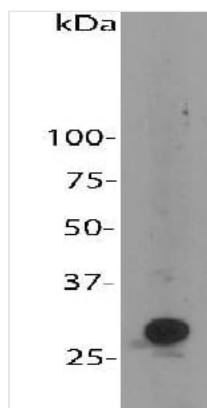
PRODUCT SYNONYMS

mCherry; Purified Chicken IgY; mCherry-Chicken; anti-mCherry antibody

PRODUCT SPECIFICATIONS

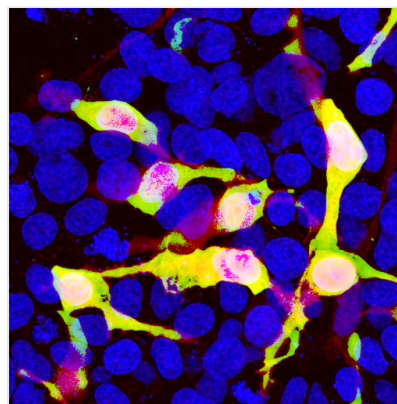
Reactivity	Mammalian
Purity/Purification	Affinity Purified
Form/Format	Liquid
Sequence Length	228
Applicable Applications for anti-mCherry antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry)

IMAGES



Application Data

Image: Blot of HEK293 cells transfected with pFin-EF1-mCherry vector, courtesy of the Semple-Rowland lab at the University of Florida. There is a strong clean band at about 30 kDa. HEK293 cells which were not transfected with this vector show no protein bands.



Application Data

Image: HEK293 cells transfected in the same way and viewed in the 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 Cherry are bright red. Staining is shown in Green. Green antibody staining is only seen cells which express Cherry, as expected, and the superimposition of the green and red results in an orange signal. Interestingly stronger Cherry staining is seen in the nucleus, possibly due to degradation of some Cherry molecules to release the low molecular weight Cherry fluorochrome.

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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