

OriGene Technologies Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850

Phone: +1-888-267-4436 Fax: +1-301-340-8606 techsupport@origene.com

UNITED STATES

AP33097PU-S

OriGene EU

Acris Antibodies GmbH

Schillerstr. 5 32052 Herford GERMANY

Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info@acris-antibodies.com

Polyclonal Antibody to mCherry - Aff - Purified

Alternate names: Cherry Fluorescent Protein, Red Fluorescent Protein

Catalog No.: AP33097PU-S

Quantity: 0.6 mg
Concentration: 3.0 mg/ml

Background: mCherry is an engineered derivative of one of a family of proteins originally isolated from

Cnidarians (jelly fish, sea anemones and corals). The prototype for these fluorescent proteins is Green Fluorescent Protein (GFP), which is a ~27kDa protein isolated originally from the jellyfish Aequoria victoria. GFP was the basis of the 2008 Nobel Prize in Chemistry,

awarded to Osamu Shimomura, Martin Chalfie and Roger Tsien, specifically "for the discovery and development of the green fluorescent protein, GFP". On expression from the GFP gene, GFP protein will fold correctly and fluoresce strongly, the development of fluorescence requires no cofactors except molecular oxygen. It can therefore be expressed in fluorescent form in essentially any prokaryotic or eukaryotic cell under aerobic

conditions. As a result DNA encoding GFP can be fused to DNA encoding other proteins as a means to visualize the resulting fusion protein in live cells or animals. Engineered forms of GFP and relatives have been developed to monitor Calcium levels, protease activation and in a variety of other processes in real time. A whole range of GFP derivatives with different spectral properties have been developed, largely in the Tsien lab. The mCherry protein was derived from DsRed, a red fluorescent protein from so-called disc corals of the genus Discosoma. DsRed is a 223 amino acid ~28kDa protein similar in size and properties to

GFP, but, obviously, produces a red rather than a green fluorochrome.

Host / Isotype: Goat / IgG

Immunogen: Purified recombinant peptide produced in *E. coli*.

Format: State: Liquid purified IgG fraction

Purification: Epitope Affinity Chromatography

Buffer System: PBS

Preservatives: 0.05% Sodium Azide

Stabilizers: 20% Glycerol

Applications: Western blot: 1/500-1/2,000.

Immunofluorescence: 1/50-1/500.

Immunohistochemistry on Paraffin Sections: 1/50-1/500. Immunohistochemistry on Frozen Sections: 1/50-1/500.

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

Specificity: In 293HEK cells transfected with cds plasmid detects a band of approximately 30 kDa by

Western blot.

This mCherry antibody Cat.-No AP33097PU is specific for mCherry and does not recognizes

TÜV NORD
TÜV NORD CERT
OM FON ISO SSÖL



AP33097PU-S: Polyclonal Antibody to mCherry - Aff - Purified

GFP (Green Fluorescent Protein).

Reacts against mCherry, Red Fluorescent Protein from so-called disc corals of Discosoma

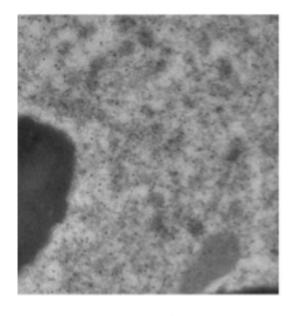
species.

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

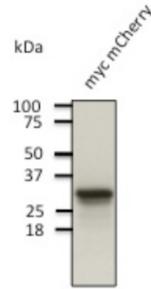
Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Pictures: Immunogold labeling of RPE, in vivo

injected with mCherry expressing vector.



Western Blot analysis using mCherry Antibbody Cat.-No AP33097PU at 1/1000 dilution, 293HEK cells transfected with myc-mCherry, Lysates at 100 µg/Lane. Rabbit anti Goat IgG -HRP at 1/10,000 dilution.



Immunofluorescence in 293HEK cells transfected with mCherry-Rab1a using mCherry Antibody Cat.-No AP33097PU at 1/50 dilution. Cells were fixed with 4% of PFA.

