abcam

ab213511

Anti-mCherry antibody [EPR20579]

Anti-mCherry antibody [EPR20579] (ab213511) is a rabbit monoclonal antibody detecting mCherry in **Western Blot, Flow Cytometry, IP, ICC/IF, ELISA**.

- Biophysical QC for unrivalled batch-batch consistency
- Over 20 publications

Lab Essentials | Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR20579
Purification technique	Affinity purification Protein A
Concentration	0.518 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Tag
Dilution info	1/500
Notes	-

ICC/IF

Tested

Species	Tag
Dilution info	1/100
Notes	-

IP

Tested

Species	Tag
Dilution info	1/20
Notes	-

WB

Tested

Species	Tag
Dilution info	1/1000
Notes	-

IHC-P

Not recommended

Species	Tag
Dilution info	-
Notes	When testing tissues from mCherry fusion protein knock-in models using IHC-P, detection may be impaired due to potential epitope masking by the fusion partner.

I-ELISA

Tested

Species	Tag
Dilution info	-
Notes	-

Target data

See full target information mCherry

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-mCherry antibody [EPR20579] (ab213511) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Flow Cyt), Immunoprecipitation (IP), Immunocytochemistry/immunofluorescence (ICC/IF), ELISA. **What is the molecular weight of mCherry?**
Anti-mCherry [EPR20579] (ab213511) specifically detects a band for mCherry (UniProt: Q9U6Y8) at a molecular weight of 26kDa.

Trusted by the scientific community
Anti-mCherry [EPR20579] (ab213511) was first used in a scientific publication in 2017 and has been cited over 20 times in peer-reviewed journals.

Reviewed by scientists
Anti-mCherry [EPR20579] (ab213511) has over 5 independent reviews from customers.

Other related products
We have a range of other formats of antibody clone [EPR20579] also available for your convenience: ab213511, Carrier free - ab232341, ab316977, Carrier free - ab316978

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

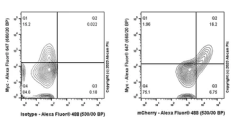
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

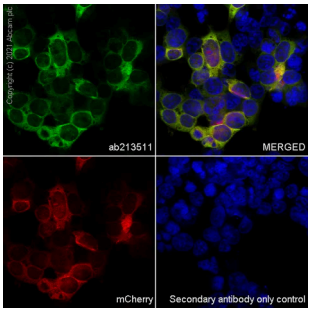
Full details and terms and conditions can be found here:
Terms & Conditions.

7 product images



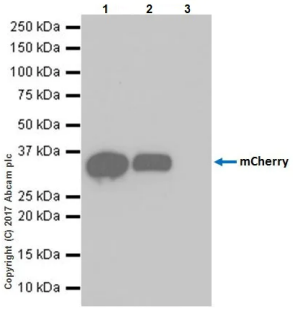
Flow Cytometry - Anti-mCherry antibody [EPR20579] (ab213511)

Flow cytometry analysis of 293T (human embryonic kidney epithelial cell) labeling mCherry with ab213511 at 1/500 dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/5000 dilution. Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% methanol. Isotype control: Rabbit monoclonal IgG (ab172730) (Left).



Immunocytochemistry/ Immunofluorescence - Anti-mCherry antibody [EPR20579] (ab213511)

Immunocytochemistry/ Immunofluorescence analysis of 293T (human embryonic kidney epithelial cell) labeling mCherry with ab213511 at 1/100 dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution. Cells were fixed with 4% Paraformaldehyde and permeabilised with 0.1% TritonX-100. DAPI was used as nuclear counterstain. Confocal image showing positive staining in 293T cells transfected with a mCherry expression vector containing a myc tag. Image was taken with a confocal microscope(Leica-Microsystems, TCS SP8).



Immunoprecipitation - Anti-mCherry antibody [EPR20579] (ab213511)

mCherry was immunoprecipitated from 0.35 mg of 293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with a His-tagged mCherry whole cell lysate with ab213511 at 1/20 dilution. Western blot was performed from the immunoprecipitate using ab213511 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10,000 dilution.
Lane 1: 293T transfected with a His-tagged mCherry whole cell lysate 10 µg (Input).

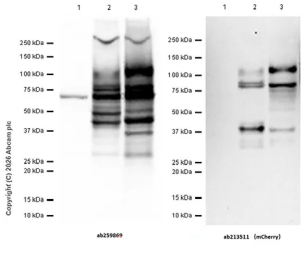
Lane 2: ab213511 IP in 293T transfected with a His-tagged mCherry whole cell lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab213511 in 293T transfected with a His-tagged mCherry whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 10 seconds.

All lanes:
Immunoprecipitation - Anti-mCherry antibody [EPR20579] (ab213511)



Western blot - Anti-mCherry antibody [EPR20579] (ab213511)

MCherry Western blot staining using rabbit Anti-mCherry antibody

Blocking and diluting buffer and concentration: 5% NFDM /TBST.
DYRK1 has been shown to undergo degradation (PMID: 27807027)
Lanes 1 - 3:
Western blot - Anti-DYRK1A + DYRK1B antibody [EPR24132-61] (ab259869) at 1/1000 dilution

Lanes 1 - 3:
Western blot - Anti-mCherry antibody [EPR20579] (ab213511) at 1/1000 dilution

Lane 1:
293T cells transfected with an empty vector containing a mCherry tag whole cell lysate at 20 µg

Lane 2:
293T cells transfected with a full length human DYRK1A expression vector containing a mCherry tag whole cell lysate at 20 µg

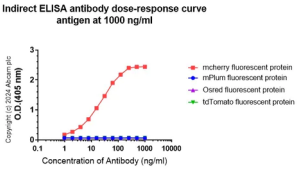
Lane 3:
293T cells transfected with a full length human DYRK1B expression vector containing a mCherry tag whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

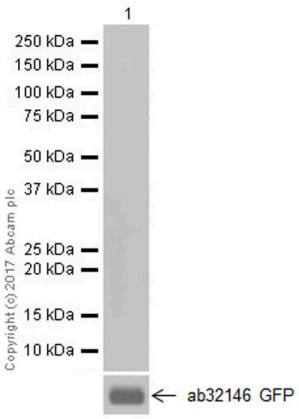
Predicted band size: 86 kDa

Exposure time: 3s



Indirect ELISA - Anti-mCherry antibody [EPR20579] (ab213511)

ELISA analysis of mPlum fluorescent protein,Osred fluorescent protein,tdTomato fluorescent protein,mcherry fluorescent protein at 1000 ng/mL with ab213511 at 1000-0 ng/mL. An Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) at 1/2500 dilution was used as the secondary antibody.



Western blot - Anti-mCherry antibody [EPR20579] (ab213511)

MCherry Western blot staining of Green fluorescent protein (GFP) using rabbit Anti-mCherry antibody

Blocking/Dilution buffer: 5% NFDM/TBST.
Green fluorescent protein (GFP) contains aa1-238 with His-tag.

All lanes:
Western blot - Anti-mCherry antibody [EPR20579] (ab213511) at 1/1000 dilution

All lanes:
Green fluorescent protein (GFP) at 0.01 µg

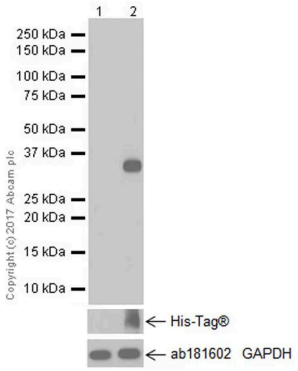
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Developed using the ECL technique.

Predicted band size: 26 kDa

Exposure time: 3min



Western blot - Anti-mCherry antibody [EPR20579] (ab213511)

MCherry Western blot staining using rabbit Anti-mCherry antibody

Blocking/Dilution buffer: 5% NFDM/TBST.
All lanes:
Western blot - Anti-mCherry antibody [EPR20579] (ab213511) at 1/1000 dilution

Lane 1:
293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with an empty expression vector whole cell lysate at 10 µg

Lane 2:
293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with a His-tagged mCherry whole cell lysate at 10 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Developed using the ECL technique.

Predicted band size: 26 kDa

Observed band size: 29 kDa

Exposure time: 5s

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.