abcam

ab232341

Anti-mCherry antibody [EPR20579] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR20579
Purification technique	Affinity purification Protein A
Concentration	1.024 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Tested

Species	Tag
Dilution info	-

Notes	-

Flow Cyt

Tested

Species	Tag
Dilution info	-
Notes	-

IP

Tested

Species	Tag
Dilution info	-
Notes	-

WB

Tested

Species	Tag
Dilution info	-
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	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab232341 is the carrier-free version of ab213511.

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.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

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

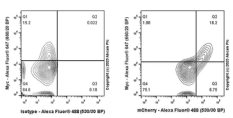
We do not recommend this combination. It is not covered by our product promise.

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.

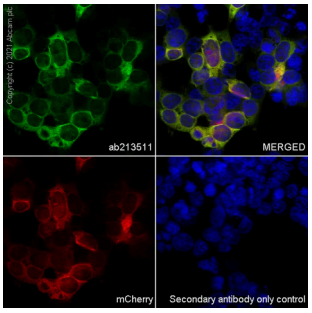
Full details and terms and conditions can be found here:
Terms & Conditions.

4 product images



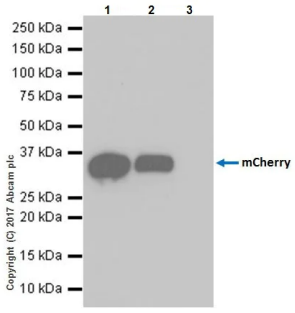
Flow Cytometry - Anti-mCherry antibody [EPR20579] - BSA and Azide free (ab232341)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (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] - BSA and Azide free (ab232341)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (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] - BSA and Azide free (ab232341)

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 1/1000 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.

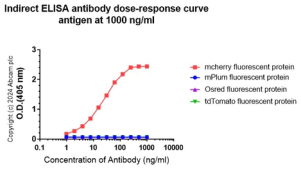
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab213511 in 293T transfected with a His-tagged mCherry whole cell lysate.

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

Exposure time: 10 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab213511).

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



Indirect ELISA - Anti-mCherry antibody [EPR20579] - BSA and Azide free (ab232341)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (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.

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