abcam

ab309517

Anti-Mesothelin antibody [EPR28269-62] - 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	EPR28269-62
Purification technique	Affinity purification Protein A
Concentration	1.016 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Human
Dilution info	-

Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

IP

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information MSLN

Function	Membrane-anchored forms may play a role in cellular adhesion. Megakaryocyte-potentiating factor (MPF) potentiates megakaryocyte colony formation in vitro.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Notes

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

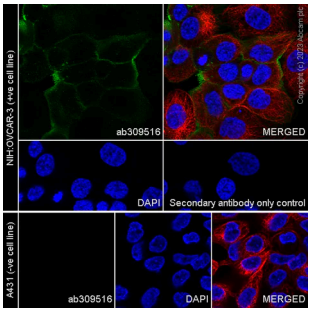
We do not recommend this combination. It is not covered by our product promise.

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.

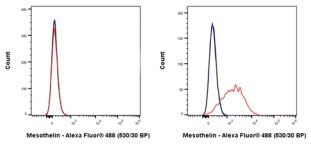
Full details and terms and conditions can be found here:
Terms & Conditions.

6 product images



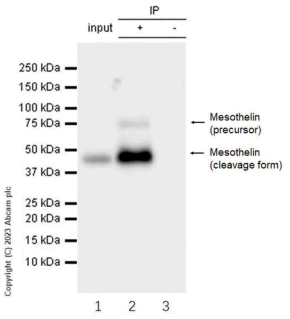
Immunocytochemistry/ Immunofluorescence - Anti-Mesothelin antibody [EPR28269-62] - BSA and Azide free (ab309517)

This data was developed using ab309516, the same antibody clone in a different buffer formulation. Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Tween-20 permeabilized NIH OVCAR-3 (human ovary adenocarcinoma epithelial cell) cells labelling Mesothelin with ab309516 at 1/100 (5.08 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 2 ug/ml dilution (Green). Confocal image showing mainly membranous staining in NIH:OVCAR-3 cell line.Negative control: A431 (PMID: 33262421).Image was taken with a confocal microscope(Leica-Microsystems, TCS SP8). is observed. ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 2.5ug/ml dilution (Red). The Nuclear counterstain was DAPI (Blue). Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/ml dilution.



Flow Cytometry - Anti-Mesothelin antibody [EPR28269-62] - BSA and Azide free (ab309517)

This data was developed using ab309516, the same antibody clone in a different buffer formulation. Flow cytometric analysis of / fixed / permeabilized A431 (human epidermoid carcinoma epithelial cell, Left) / NIH:OVCAR-3 (human ovary adenocarcinoma epithelial cell, Right) cells labelling Mesothelin with ab309516 at 1/50 dilution (1 ug)/Red (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody. Negative control: A431(PMID: 33262421). Gated on viable cells.



Immunoprecipitation - Anti-Mesothelin antibody [EPR28269-62] - BSA and Azide free (ab309517)

This data was developed using ab309516, the same antibody clone in a different buffer formulation.
Mesothelin was immunoprecipitated from 0.35 mg NIH OVCAR-3 (human ovary adenocarcinoma epithelial cell) whole cell lysate with ab309516 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab309516 at 1/1000 dilution. VeriBlot for IP secondary antibody (HRP) (ab131366) was used at 1/5000 dilution.

Lane 1: NIH OVCAR-3 (human ovary adenocarcinoma epithelial cell) whole cell lysate
Lane 2: ab309516 IP in NIH OVCAR-3 (human ovary adenocarcinoma epithelial cell) whole cell lysate
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab309516 in NIH:OVCAR-3 whole cell lysate

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

Exposure time: 5 seconds

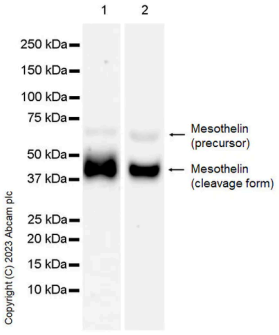
All lanes:
Immunoprecipitation - Anti-Mesothelin antibody [EPR28269-62] (ab309516) at 1/1000 dilution

All lanes:
NIH OVCAR-3 (human ovary adenocarcinoma epithelial cell) whole cell lysate

Secondary

All lanes:
Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/5000 dilution

Exposure time: 5s



Western blot - Anti-Mesothelin antibody [EPR28269-62] - BSA and Azide free (ab309517)

This data was developed using ab309516, the same antibody clone in a different buffer formulation. Blocking and diluting buffer and concentration: 5% NFDM/TBST 69 kDa full length band and 40 kDa cleavage fragment band were ovserved. Exposure time: Lane 1: 169 seconds Lane 2: 70 seconds
All lanes:
Western blot - Anti-Mesothelin antibody [EPR28269-62] (ab309516) at 1/1000 dilution

Lane 1:
Human ovary cancer tissue lysate at 20 µg

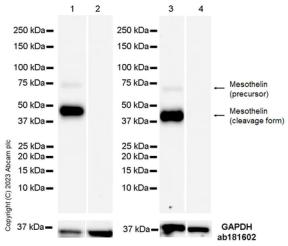
Lane 2:
HeLa (human epithelial cell line from cervical adenocarcinoma) whole cell lysate at 20 µg

Secondary

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

Observed band size: 49 kDa, 69 kDa

Exposure time: 169s



Western blot - Anti-Mesothelin antibody [EPR28269-62] - BSA and Azide free (ab309517)

This data was developed using ab309516, the same antibody clone in a different buffer formulation. Blocking and diluting buffer and concentration: 5% NFDM/TBST Negative control: A431(PMID: 20922056); MCF-7(PMID: 8552591). 69 kDa full length band and 40 kDa cleavage fragment band were ovserved. The expression molecular weight observed is consistent with what has been described in the literature (PMID:20922056; PMID:8552591) Anti-GAPDH antibody (ab181602) loading control staining at 1/200000 dilution. Exposure time: Lane 1, 2: 48 seconds Lane 3, 4: 70 seconds
All lanes:
Western blot - Anti-Mesothelin antibody [EPR28269-62] (ab309516) at 1/1000 dilution

Lane 1:
NIH OVCAR-3 (human ovary adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Lane 2:
MCF7 (human breast adenocarcinoma epithelial cell) whole cell lysate at 20 µg

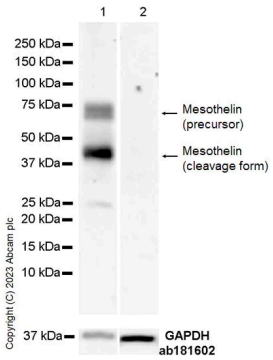
Lane 3:
NIH:OVCAR-3 whole cell lysate at 20 µg

Lane 4:
A431 (human epidermoid carcinoma epithelial cell) whole cell lysate at 20 µg

Secondary

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

Observed band size: 40 kDa, 69 kDa



Western blot - Anti-Mesothelin antibody [EPR28269-62] - BSA and Azide free (ab309517)

This data was developed using ab309516, the same antibody clone in a different buffer formulation. Blocking and diluting buffer and concentration: 5% NFDM/TBST Negative control: Huh-7 (PMID: 20922056). 69 kDa full length band and 40 kDa cleavage fragment band were ovserved. This blot was developed using a higher sensitivity ECL substrate. Anti-GAPDH antibody (ab181602) loading control staining at 1/200000 dilution. Exposure time: 3 minutes
All lanes:
Western blot - Anti-Mesothelin antibody [EPR28269-62] (ab309516) at 1/1000 dilution

Lane 1:
SK-OV-3 (human ovarian cancer epithelial cell) whole cell lysate at 20 µg

Lane 2:
Huh7 (human hepatocellar carcinoma epithelial cell) whole cell lysate 20 at 20 µg

Secondary

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

Observed band size: 40 kDa, 69 kDa

Exposure time: 3min

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