abcam

ab324979

Anti-Ornithine Decarboxylase/ODC antibody [EPR29794-513]

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	EPR29794-513
Purification technique	Affinity purification Protein A
Specificity	Unsuitable for human WB, ICC and FC-intra.
Concentration	0.509 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Mouse
Dilution info	1/1000

Notes	-

Not recommended

Species	Human, Transfected cell lysate - Human
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	1/200
Notes	-

Not recommended

Species	Human, Transfected cell lysate - Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/50
Notes	-

Not recommended

Species	Human, Transfected cell lysate - Human
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human, Mouse, Transfected cell lysate - Human
Dilution info	-
Notes	-

Dot

Tested

Species	Transfected cell lysate - Human
Dilution info	1/1000
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Human
Dilution info	-
Notes	-

Target data

See full target information ODC1

Function	Catalyzes the first and rate-limiting step of polyamine biosynthesis that converts ornithine into putrescine, which is the precursor for the polyamines, spermidine and spermine. Polyamines are essential for cell proliferation and are implicated in cellular processes, ranging from DNA replication to apoptosis.

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

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.

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

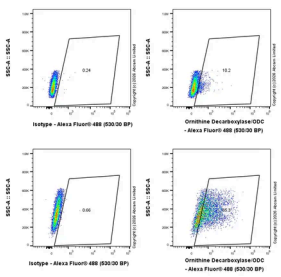
We do not recommend this combination. It is not covered by our product promise.

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

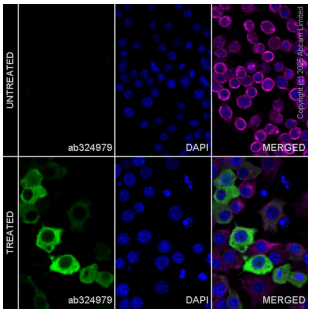


Flow Cytometry (Intracellular) - Anti-Ornithine Decarboxylase/ODC antibody [EPR29794-513] (ab324979)

Ornithine Decarboxylase/ODC Flow Cytometry (Intracellular) staining using rabbit Anti-Ornithine Decarboxylase/ODC antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized RAW 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) treated with 100ng/ml LPS for 24hours (Lower left and right) and Untreated RAW 264.7 (Upper left and right) cells labelling Ornithine Decarboxylase/ODC with ab324979 at 1/50 dilution (1ug) / Upper right and Lower right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.



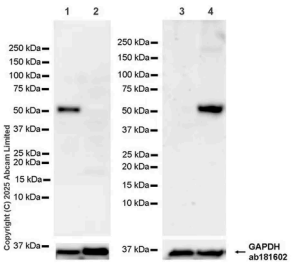
Immunocytochemistry/ Immunofluorescence - Anti-Ornithine Decarboxylase/ODC antibody [EPR29794-513] (ab324979)

Ornithine Decarboxylase/ODC Immunocytochemistry/ Immunofluorescence staining of RAW 264.7 treated with lipopolysaccharide (100 ng/mL) for 24 hr using rabbit Anti-Ornithine Decarboxylase/ODC antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized RAW 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) and RAW 264.7 treated with lipopolysaccharide (100 ng/mL) for 24 hr labelling Ornithine Decarboxylase/ODC with ab324979 at 1/200 (2.48 µg/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green).

Confocal image showing increased cytoplasmic staining in RAW 264.7 cell line (shown in green) treated with lipopolysaccharide (100 ng/mL) for 24 hr. The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

ab7291 Anti-alpha Tubulin mouse monoclonal antibody was used to counterstain tubulin at 1/1000 dilution (Magenta). The Nuclear counterstain was DAPI (Blue).



Western blot - Anti-Ornithine Decarboxylase/ODC antibody [EPR29794-513] (ab324979)

Ornithine Decarboxylase/ODC Western blot staining using rabbit Anti-Ornithine Decarboxylase/ODC antibody

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

Low expression: brain.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) (1:200000) (36KDa).

Exposure time: Lanes 1-2: 26 seconds, lanes 3-4: 180 seconds.

All lanes:
Western blot - Anti-Ornithine Decarboxylase/ODC antibody [EPR29794-513] (ab324979) at 1/1000 dilution

Lane 1:
Mouse kidney tissue lysate at 40 µg

Lane 2:
Mouse brain tissue lysate at 40 µg

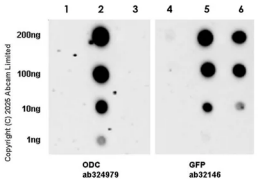
Lane 3:
Untreated RAW 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate at 50 µg

Lane 4:
RAW 264.7 treated with 100ng/ml LPS for 24 hours whole cell lysate at 50 µg

Secondary

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

Observed band size: 50 kDa, 36 kDa



Dot Blot - Anti-Ornithine Decarboxylase/ODC antibody [EPR29794-513] (ab324979)

Ornithine Decarboxylase/ODC Dot Blot staining using rabbit Anti-Ornithine Decarboxylase/ODC antibody

Dot blot analysis of ODC1 using ab324979 at 1:1000 (0.496 µg/ml) followed by a Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1:100,000 dilution.

Exposure time: 103 seconds.

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

This antibody does not cross-react with human AZIN1.

All lanes:
Dot Blot - Anti-Ornithine Decarboxylase/ODC antibody [EPR29794-513] (ab324979) at 1/1000 dilution

Lanes 1 and 4:

293T (human embryonic kidney epithelial cell) cells transfected with an empty vector containing a GFP-tag whole cell lysate

Lanes 2 and 5:
293T cells transfected with a human ODC1 expression vector containing a GFP-tag, whole cell lysate

Lanes 3 and 6:
293T cells transfected with a human AZIN1 expression vector containing a GFP-tag, whole cell lysate

Secondary

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

Exposure time: 103s

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