abcam

ab326942

Anti-CXCL1 antibody [EPR31264-520]

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	EPR31264-520
Purification technique	Affinity purification Protein A
Concentration	0.482 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

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

Species	Human

Dilution info	1/1000
Notes	-

Not recommended

Species	Mouse
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/500 - 1/5000
Notes	-

Not recommended

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

ICC/IF

Tested

Species	Human
Dilution info	1/500
Notes	-

Not recommended

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

IHC-P

Not recommended

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

Target data

See full target information CXCL1

Function	Has chemotactic activity for neutrophils. May play a role in inflammation and exerts its effects on endothelial cells in an autocrine fashion. In vitro, the processed forms GRO-alpha(4-73), GRO-alpha(5-73) and GRO-alpha(6-73) show a 30-fold higher chemotactic activity.

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

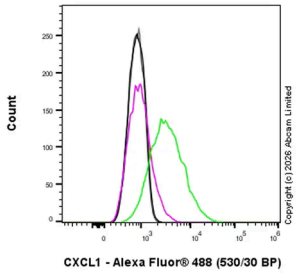
We do not recommend this combination. It is not covered by our product promise.

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.

5 product images

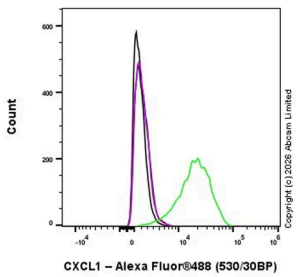


Flow Cytometry (Intracellular) - Anti-CXCL1 antibody [EPR31264-520] (ab326942)

CXCL1 Flow Cytometry (Intracellular) staining using rabbit Anti-CXCL1 antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized BT-549 (human Breast Mammary gland epithelial) treated with 300ng/ml BFA for 20 hours (Green and black) and Untreated control (Magenta and grey) cells labelling with ab326942 at 1/5000 dilution (0.01ug) / Magenta and Green compared with a Rabbit monoclonal IgG (ab172730) / Black and Grey 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.

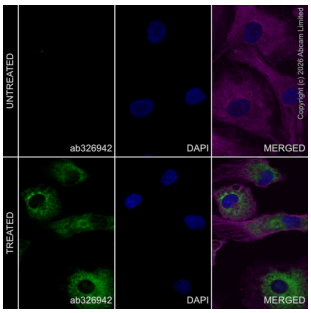


Flow Cytometry (Intracellular) - Anti-CXCL1 antibody [EPR31264-520] (ab326942)

CXCL1 Flow Cytometry (Intracellular) staining using rabbit Anti-CXCL1 antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized HUVEC (human umbilical vein endothelial cell) treated with 0.5 ug/ml LPS for 24 hours and with 300ng/ml Brefeldin A for the last 20 hours (Green and black) and Untreated HUVEC (Magenta and grey) cells labelling with ab326942 at 1/500 dilution (0.1ug) / Magenta and Green compared with a Rabbit monoclonal IgG (ab172730) / Black and Grey 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.



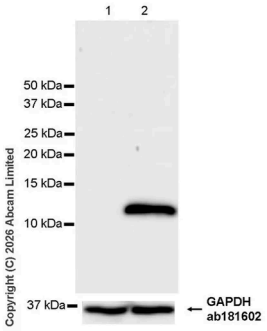
Immunocytochemistry/ Immunofluorescence - Anti-CXCL1 antibody [EPR31264-520] (ab326942)

CXCL1 Immunocytochemistry/ Immunofluorescence staining of HUVEC treated with LPS (0.5 ug/ml) for 24 hr and with Brefeldin A (300ng/ml) for the last 20 hr using rabbit Anti-CXCL1 antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HUVEC (human umbilical vein endothelial cell) and HUVEC treated with LPS (0.5 ug/ml) for 24 hr and with Brefeldin A (300ng/ml) for the last 20 hr labelling with ab326942 at 1/500 (0.964 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 HUVEC cells (shown in green) treated with LPS (0.5 ug/ml) for 24 hr and with Brefeldin A (300ng/ml) for the last 20 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-CXCL1 antibody [EPR31264-520] (ab326942)

CXCL1 Western blot staining of HUVEC treated with 0.5 µg/ml LPS for 4 h, 300 ng/ml BFA was then added for additional 20 h whole cell lysate using rabbit Anti-CXCL1 antibody

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

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

All lanes:
Western blot - Anti-CXCL1 antibody [EPR31264-520] (ab326942) at 1/1000 dilution

Lane 1:
Untreated HUVEC (human umbilical vein endothelial cell) whole cell lysate at 20 µg

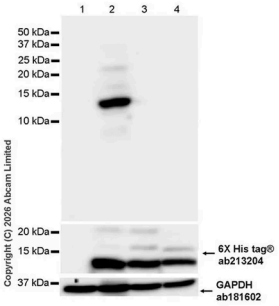
Lane 2:
HUVEC treated with 0.5 µg/ml LPS for 4 h, 300 ng/ml BFA was then added for additional 20 h whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/1000 dilution

Observed band size: 11 kDa, 36 kDa

Exposure time: 37s



Western blot - Anti-CXCL1 antibody [EPR31264-520] (ab326942)

CXCL1 Western blot staining using rabbit Anti-CXCL1 antibody

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

This antibody does not cross-react with human CXCL2 and CXCL3.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) (1:200000) (36KDa);Anti-6X His tag® antibody [EPR20547] - ChIP Grade (ab213204) (1:5000)(11KDa).

All lanes:
Western blot - Anti-CXCL1 antibody [EPR31264-520] (ab326942) at 1/1000 dilution

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

Lane 2:
293T cells transfected with a human CXCL1 expression vector containing a his-tag, whole cell lysate at 20 µg

Lane 3:
293T cells transfected with a human CXCL2 expression vector containing a his-tag, whole cell lysate at 20 µg

Lane 4:
293T cells transfected with a human CXCL3 expression vector containing a his-tag, whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/1000 dilution

Observed band size: 11 kDa, 36 kDa

Exposure time: 180s

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