abcam

ab264476

Anti-CXCL14 antibody [EPR22807-28] - 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	EPR22807-28
Purification technique	Affinity purification Protein A
Concentration	0.946 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Mouse, Rat, Human
Dilution info	-

Notes	-

WB

Expected

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

IHC-P

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-

Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information CXCL14

Function	Potent chemoattractant for neutrophils, and weaker for dendritic cells. Not chemotactic for T-cells, B-cells, monocytes, natural killer cells or granulocytes. Does not inhibit proliferation of myeloid progenitors in colony formation assays.

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

ab264476 is the carrier-free version of ab264467.

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.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The CXCL14 protein also known as BRAK is a small cytokine belonging to the CXC chemokine family. It has a molecular mass of 8.9 kDa and is expressed in various tissues with high levels in the kidney lung skin and reproductive tissues. It does not normally circulate in the blood but rather acts in tissues. The protein plays a role in immune system regulation by being involved in the migration of immune cells.
Biological function summary	CXCL14 influences cell signaling pathways that regulate immune responses and tissue homeostasis. It engages in the attraction of immune cells like monocytes and dendritic cells to specific tissues. While CXCL14 is not part of a larger complex its function in modulating local immune environments is significant. This protein's role in immune surveillance contributes to both normal physiological conditions and response to pathology.
Pathways	Interactions of CXCL14 involve key signaling cascades. The protein is part of pathways that regulate inflammation and cell movement including the MAPK and PI3K signaling pathways. Related proteins such as CXCR4 and CCR2 interact within these pathways to coordinate cell signaling and chemotaxis. These interactions facilitate communication between cells and regulate responses essential for maintaining tissue integrity.
Associated diseases and disorders	CXCL14 links with conditions like cancer and obesity. Studies suggest that CXCL14 may play a dual role in cancer acting as a tumor suppressor in certain contexts by influencing immune cell infiltration into tumors. In obesity altered expression patterns of CXCL14 have been observed highlighting potential roles in adipose tissue regulation. Proteins like CXCR4 are also connected with CXCL14 in these disease contexts suggesting complex interdependencies within the cellular communication network.

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.

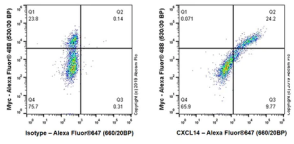
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

---

2 product images

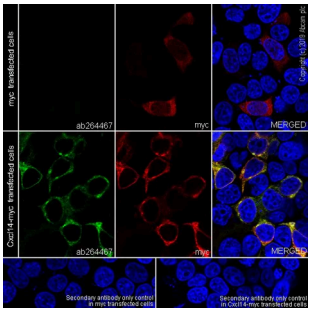


Flow Cytometry (Intracellular) - Anti-CXCL14 antibody [EPR22807-28] - BSA and Azide free (ab264476)

CXCL14 Flow Cytometry (Intracellular) staining using rabbit Anti-CXCL14 antibody

Intracellular flow cytometric analysis of [4% paraformaldehyde-fixed, 90% methanol-permeabilized HEK-293T (human embryonic kidney epithelial cell) (transfected with myc-tagged CXCL14 expression vector) cells labeling CXCL14 with ab264467 at 1/500 dilution (Right) compared with a Isotype control details (ab172730) (Left). Goat anti rabbit IgG (Alexa Fluor®488, ab150079), at 1/2000 dilution was used as the secondary antibody.
Cells were stained with rabbit IgG (Left) or ab264467 (Right). Then stained with anti-myc tag conjugated to Alexa Fluor®488.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab264467).



Immunocytochemistry/ Immunofluorescence - Anti-CXCL14 antibody [EPR22807-28] - BSA and Azide free (ab264476)

CXCL14 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-CXCL14 antibody

Immunofluorescent analysis of 4% paraformaldehyde-fixed,0.1% Triton X-100 permeabilized HEK-293T (human embryonic kidney epithelial cell) (transfected with myc-tagged CXCL14 expression vector) cells labeling CXCL14 with ab264467 at 1/100 dilution, followed by ab150077 AlexaFluor®488 Goat anti-Rabbit secondary secondary antibody at 1/1000 dilution (Green). The myc tag is also detected with a Myc-Tag (9B11) Mouse mAb (Alexa Fluor® 647 Conjugate) (Red).

Confocal image showing cytoplasmic staining in 293T cells transfected with myc-tagged CXCL14 expression vector. The nuclear counter stain is DAPI (Blue).
Secondary antibody only control: Used PBS instead of primary antibody, followed by ab150077 AlexaFluor® 488 Goat anti-Rabbit secondary secondary antibody at 1/1000 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab264467).

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