abcam

ab246345

Anti-LGALS14 antibody [EPR9665] - 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	EPR9665
Purification technique	Affinity purification Protein A
Concentration	1.062 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Mouse, Human
Dilution info	-

Notes	-

WB

Expected

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

IHC-P

Not recommended

Species	Mouse, Human
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-

Notes	-

Predicted

Species	Mouse
Dilution info	-
Notes	-

Target data

See full target information LGALS14

Function	Binds beta-galactoside and lactose. Strong inducer of T-cell apoptosis.

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

ab246345 is the carrier-free version of ab150427.

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.

Species reactivity

Rat: We have preliminary internal testing data to indicate this antibody may not react with this species.

Please contact us for more information.

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	LGALS14 also known as Galectin-14 is a member of the galectin family a group of beta-galactoside-binding proteins. It has a mass of around 14 kDa. This protein is expressed highly in eosinophils and placenta tissues. As a carbohydrate-binding protein LGALS14 participates in cellular interactions and its expression level may vary depending on cell activation states or pathological conditions.
Biological function summary	Galectin-14 functions in the immune response and regulation of inflammation. It can influence cell apoptosis and modulate signaling pathways through binding to specific carbohydrate moieties on cell surfaces. LGALS14 itself is not typically part of bigger protein complexes although it might interact with other galectins or proteins in certain cellular contexts to carry out its functions more effectively.
Pathways	This galectin family member holds a role in the immune system especially within pathways that manage inflammatory responses. It interacts with proteins such as Galectin-3 and Galectin-9 which also contribute to inflammatory regulation and immune function. These interactions help modulate immune signaling and processes like cell adhesion which are key components of the immune response pathway.
Associated diseases and disorders	LGALS14 associates with conditions such as asthma and inflammatory bowel disease (IBD). In asthma Galectin-14 levels often correlate with eosinophil activity which is an indicator of inflammation severity. Furthermore research links LGALS14 with inflammation in IBD possibly through its role in modulating like Galectin-3 which also participate in inflammation pathways. Understanding its interactions and expression can provide insights into these diseases' mechanisms and potential therapeutic targets.

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

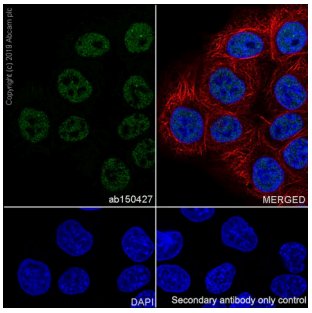
We do not recommend this combination. It is not covered by our product promise.

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.

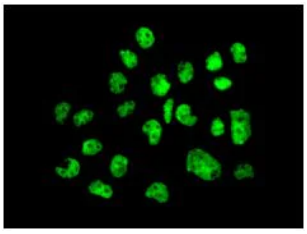
3 product images



Immunocytochemistry/ Immunofluorescence - Anti-LGALS14 antibody [EPR9665] - BSA and Azide free (ab246345)

LGALS14 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-LGALS14 antibody

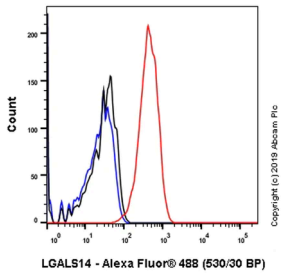
Immunocytochemistry/ Immunofluorescence analysis of JAR (Human placenta choriocarcinoma epithelial cell) cells labeling LGALS14 with purified ab150427 at 1/100 dilution (10 µg/ml). Cells were fixed in 4% Paraformaldehyde. Cells were counterstained with ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab150427)



Immunocytochemistry/ Immunofluorescence - Anti-LGALS14 antibody [EPR9665] - BSA and Azide free (ab246345)

LGALS14 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-LGALS14 antibody

Immunofluorescent analysis of JAR cells labelling LGALS14 with ab150427 at 1/100 dilution. This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab150427).



Flow Cytometry (Intracellular) - Anti-LGALS14 antibody [EPR9665] - BSA and Azide free (ab246345)

LGALS14 Flow Cytometry (Intracellular) staining using rabbit Anti-LGALS14 antibody

Intracellular Flow Cytometry analysis of JAR (Human placenta choriocarcinoma epithelial cell) cells labeling LGALS14 with purified ab150427 at 1/20 dilution (10 µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue). This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab150427)

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