abcam

ab237031

Anti-LGALS3BP antibody [EPR21757-33] - 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	EPR21757-33
Purification technique	Affinity purification Protein A
Concentration	0.993 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Expected

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

Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information LGALS3BP

Function	Promotes integrin-mediated cell adhesion. May stimulate host defense against viruses and tumor cells.

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

ab237031 is the carrier-free version of ab217572.

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	LGALS3BP also known as Galectin-3-binding protein (Mac-2 binding protein 90K) is a multifaceted glycoprotein with a mass of approximately 90 kDa. It typically interacts with galectins especially galectin-3 and is known for its adhesive properties. Researchers frequently observe it in various tissues including epithelial cells immune cells and in the extracellular matrix highlighting its involvement across different biological functions.
Biological function summary	The LGALS3BP glycoprotein modulates cell-cell and cell-matrix interactions. It does not operate alone; researchers have identified its presence in multiple complexes impacting several cellular processes such as immune modulation cell adhesion and migration. LGALS3BP can affect the immune response by influencing T-cell and natural killer cell activities which can alter the body's defense against pathogens and tumors.
Pathways	LGALS3BP significantly influences the signaling pathways involved with immune function and cellular adhesion. It plays an important role in the galectin pathway where it interacts with galectin-3 contributing to processes like cell growth and apoptosis. Additionally it affects the integrin-mediated signaling pathway enhancing cell adhesion and motility which is vital for cell migration and signaling dynamics. These interactions involve proteins such as integrins and other adhesion molecules that influence cellular communication and structural integrity.
Associated diseases and disorders	LGALS3BP is strongly linked to cancer and inflammation-related conditions. Its overexpression is correlated with tumor progression and metastasis as seen in various cancers such as breast and colorectal cancer. LGALS3BP modulates its effects by interacting with galectin-3 influencing tumor-immune escape mechanisms and promoting tumor growth. Further its role in inflammatory disorders suggests it contributes to pathological processes through interactions with proteins that mediate inflammation and immune response.

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.

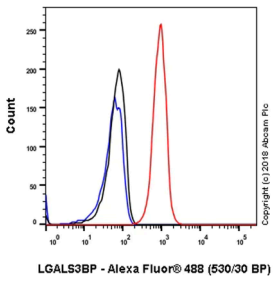
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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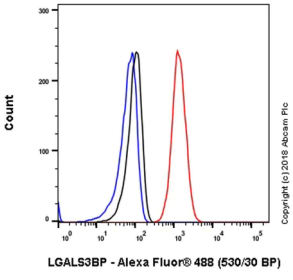
4 product images



Flow Cytometry (Intracellular) - Anti-LGALS3BP antibody [EPR21757-33] - BSA and Azide free (ab237031)

LGALS3BP Flow Cytometry (Intracellular) staining using rabbit Anti-LGALS3BP antibody

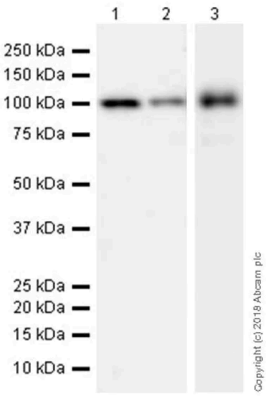
Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized HepG2 (Human hepatocellular carcinoma epithelial cell) cell line labeling LGALS3BP with ab217572 at 1/60 (red) compared with a Rabbit monoclonal IgG (ab172730) (black) and an unlabeled control (cells incubated with secondary antibody only) (blue). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077), at 1/2000 dilution was used as the secondary antibody.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab217572).



Flow Cytometry (Intracellular) - Anti-LGALS3BP antibody [EPR21757-33] - BSA and Azide free (ab237031)

LGALS3BP Flow Cytometry (Intracellular) staining using rabbit Anti-LGALS3BP antibody

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized MCF7 (Human breast adenocarcinoma epithelial cell) cell line labeling LGALS3BP with ab217572 at 1/60 (red) compared with a Rabbit monoclonal IgG (ab172730) (black) and an unlabeled control (cells incubated with secondary antibody only) (blue). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077), at 1/2000 dilution was used as the secondary antibody.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab217572).



Western blot - Anti-LGALS3BP antibody [EPR21757-33] - BSA and Azide free (ab237031)

LGALS3BP Western blot staining using rabbit Anti-LGALS3BP antibody

Blocking/Dilution buffer: 5% NFDM/TBST.
Exposure time: Lanes 1 and 2: 3 minutes; Lane 3: 10 seconds.

The molecular mass observed is consistent with what has been described in the literature (PMID: 21526146, PMID: 21094132).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab217572).

All lanes:
Western blot - Anti-LGALS3BP antibody [EPR21757-33] (ab217572) at 1/1000 dilution

Lane 1:
Human fetal brain lysate at 10 µg

Lane 2:
Human heart lysate at 10 µg

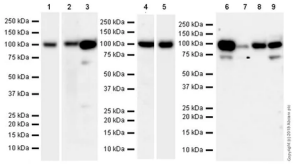
Lane 3:
Human fetal kidney lysate at 10 µg

Secondary

All lanes:
Western blot - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/2000 dilution

Predicted band size: 65 kDa

Observed band size: 70 kDa, 97 kDa



Western blot - Anti-LGALS3BP antibody [EPR21757-33] - BSA and Azide free (ab237031)

LGALS3BP Western blot staining using rabbit Anti-LGALS3BP antibody

Blocking/Dilution buffer: 5% NFDM/TBST.
Exposure times: Lane 1: 15 seconds; Lanes 3 and 4: 136 seconds; Lane 4: 3 minutes; Lane 5: 15 seconds; Lanes 6,7,8 and 9: 103 seconds.

The molecular mass observed is consistent with what has been described in the literature (PMID: 21526146, PMID: 21094132).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab217572).

All lanes:
Western blot - Anti-LGALS3BP antibody [EPR21757-33] (ab217572) at 1/1000 dilution

Lane 1:
Rat brain lysate at 10 µg

Lane 2:
Rat liver lysate at 10 µg

Lane 3:

Rat spleen lysate at 10 µg

Lane 4:
Mouse heart lysate at 10 µg

Lane 5:
Mouse kidney lysate at 10 µg

Lane 6:
C6 (Rat glial tumor glial cell) whole cell lysate at 10 µg

Lane 7:
RAW 264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate at 10 µg

Lane 8:
PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate at 10 µg

Lane 9:
NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate at 10 µg

Secondary

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

Predicted band size: 65 kDa

Observed band size: 70 kDa, 97 kDa

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