abcam

Product datasheet

Anti-Galectin 8/Gal-8 antibody [EPR4857] - BSA and Azide free ab239983

Recombinant RabMAb

10 Images

Overview

Product name	Anti-Galectin 8/Gal-8 antibody [EPR4857] - BSA and Azide free
Description	Rabbit monoclonal [EPR4857] to Galectin 8/Gal-8 - BSA and Azide free
Host species	Rabbit
Specificity	This antibody has weak cross-reactivity with Galectin 9.
Tested applications	**Suitable for:** IHC-P, Flow Cyt (Intra), IP, ICC/IF, WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IP: HeLa whole cell lysate.
General notes	ab239983 is the carrier-free version of **ab109519**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. 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. 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. 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 production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR4857
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab239983 in the following tested applications.

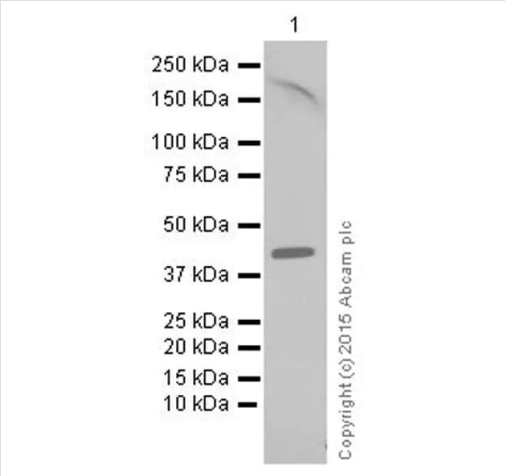
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.
Flow Cyt (Intra)		Use at an assay dependent concentration. **ab199376** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IP		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 40 kDa.

Target

Tissue specificity	Ubiquitous. Selective expression by prostate carcinomas versus normal prostate and benign prostatic hypertrophy.
Sequence similarities	Contains 2 galectin domains.
Domain	Contains two homologous but distinct carbohydrate-binding domains.
Cellular localization	Cytoplasm.

Images



Western blot - Anti-Galectin 8/Gal-8 antibody [EPR4857] - BSA and Azide free (ab239983)

Anti-Galectin 8/Gal-8 antibody [EPR4857] (**ab109519**) at 1/10000 dilution (purified) + LNCAP (human prostat carcinoma) whole cell lysate at 10 µg

Secondary

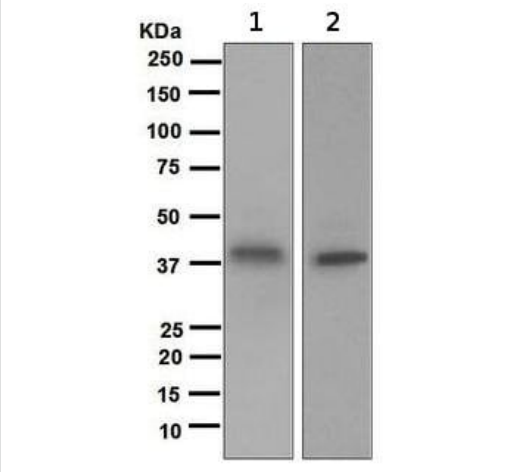
Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 40 kDa

Observed band size: 40 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109519**).

Blocking and diluting buffer 5% NFDM/TBST



Western blot - Anti-Galectin 8/Gal-8 antibody [EPR4857] - BSA and Azide free (ab239983)

All lanes : Anti-Galectin 8/Gal-8 antibody [EPR4857] (**ab109519**) at 1/1000 dilution (unpurified)

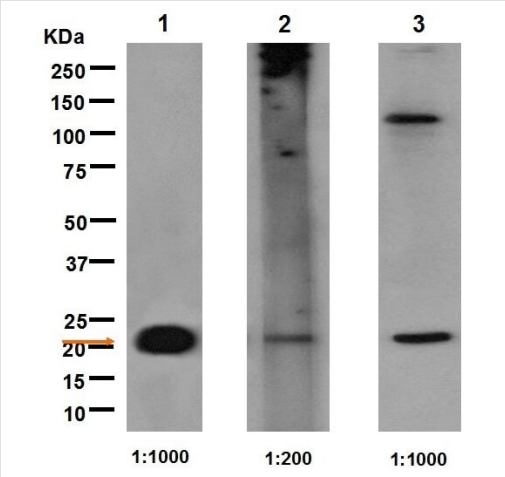
Lane 1 : HepG2 cell lysate

Lane 2 : LNCaP cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 40 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109519**).



Western blot - Anti-Galectin 8/Gal-8 antibody [EPR4857] - BSA and Azide free (ab239983)

Lanes 1 & 3 : unpurified at 1/1000 dilution
Lane 2 : Anti-Galectin 8/Gal-8 antibody [EPR4857] (**ab109519**) at 1/200 dilution (unpurified)

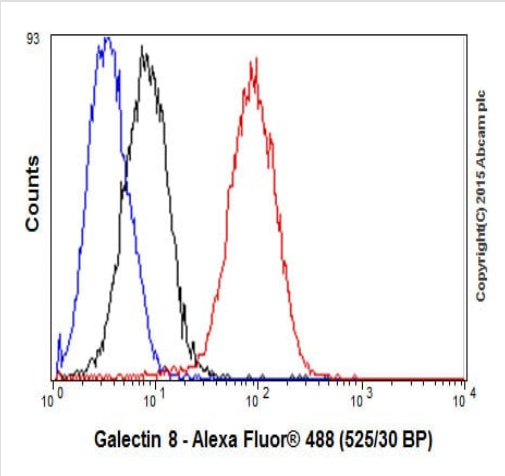
All lanes : Galectin 9 recombinant protein

Lysates/proteins at 0.02 µg per lane.

Predicted band size: 40 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109519**).

ab109519 has weak cross-reactivity with Galectin 9.



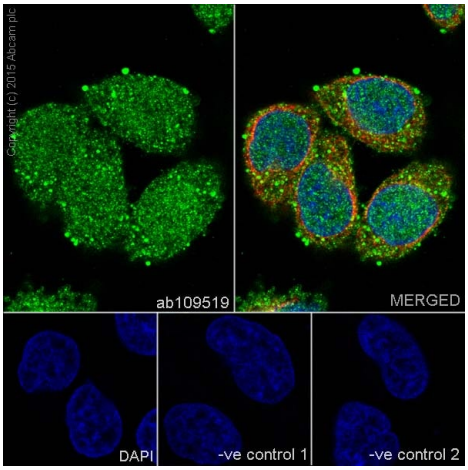
Flow Cytometry (Intracellular) - Anti-Galectin 8/Gal-8 antibody [EPR4857] - BSA and Azide free (ab239983)

ab109519 staining Galectin 8/Gal-8 in the human cell line HEK293 (human embryonic kidney) by intracellular flow cytometry. Cells were fixed with 4% paraformaldehyde and the sample was incubated with the primary antibody at a dilution of 1/100. A goat anti rabbit IgG (Alexa Fluor® 488) at a dilution of 1/500 was used as the secondary antibody.

Isoytype control: Rabbit monoclonal IgG (Black)

Unlabelled 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 (**ab109519**).

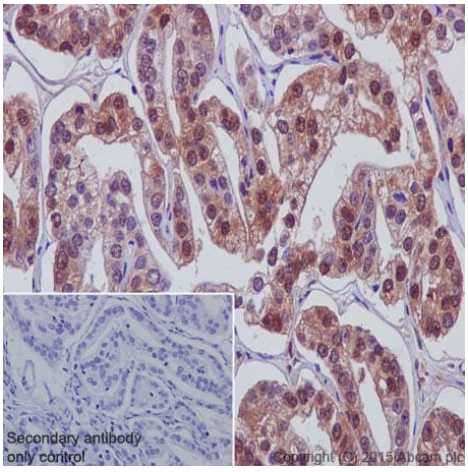


Immunocytochemistry/ Immunofluorescence - Anti-Galectin 8/Gal-8 antibody [EPR4857] - BSA and Azide free (ab239983)

ab109519 staining Galectin 8/Gal-8 in HeLa (human cervix adenocarcinoma) cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with 4% Paraformaldehyde and permeabilized with 0.1% Triton X-100. Samples were incubated with primary antibody at a dilution of 1/100. A goat anti rabbit IgG (Alexa Fluor® 488) (**ab150077**) was used as the secondary antibody at a dilution of 1/1000. **ab7291** and **ab150120** were used as counterstains for primary antibody **ab109519** and secondary antibody **ab150077** respectively and DAPI was used as a nuclear counterstain.

Negative control 1: Rabbit primary antibody and anti-mouse secondary antibody (**ab150120**)
Negative control 2: Mouse primary antibody (**ab7291**) and anti-rabbit secondary antibody (**ab150077**)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109519**).

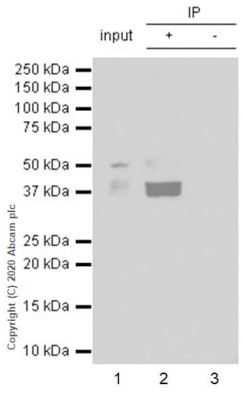


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Galectin 8/Gal-8 antibody [EPR4857] - BSA and Azide free (ab239983)

ab109519 staining Galectin 8/Gal-8 in human prostatic carcinoma tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with paraformaldehyde and antigen retrieval was by heat mediation in a EDTA buffer. Samples were incubated with primary antibody at a dilution of 1/250. A goat anti-rabbit IgG H&L (HRP) **ab97051** was used as the secondary antibody at a dilution of 1/500.

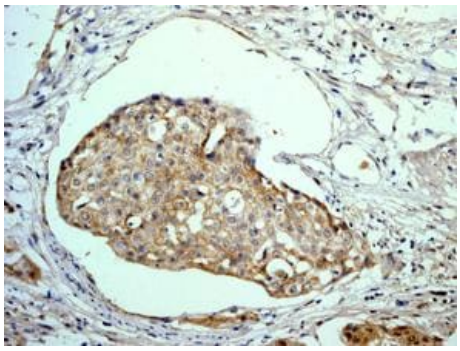
Negative control 1: PBS in place of primary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109519**).



Immunoprecipitation - Anti-Galectin 8/Gal-8 antibody [EPR4857] - BSA and Azide free (ab239983)

This data was developed using **ab109519**, the same antibody clone in a different buffer formulation.
Purified **ab109519** at 1/30 dilution (2µg) immunoprecipitating Galectin 8/Gal-8 in HeLa whole cell lysate.
Lane 1 (input): HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate 10µg
Lane 2 (+): **ab109519** + HeLa whole cell lysate.
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of **ab109519** in HeLa whole cell lysate.
VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/10,000 dilution) was used for Western blotting.
Blocking Buffer and concentration: 5% NFDM/TBST.
Diluting buffer and concentration: 5% NFDM/TBST.
Observed band size: 36/40 kDa

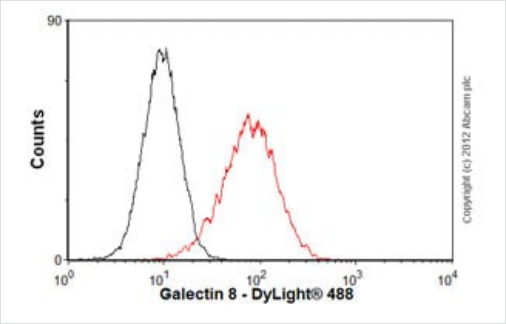


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Galectin 8/Gal-8 antibody [EPR4857] - BSA and Azide free (ab239983)

Unpurified **ab109519**, at a 1/100 dilution, staining Human prostatic adenocarcinoma, using Immunohistochemstry, Formalin/PFA-fixed paraffin-embedded tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109519**).

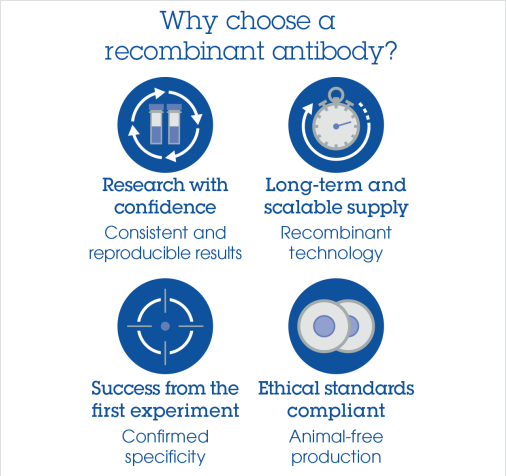
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-Galectin 8/Gal-8 antibody [EPR4857] - BSA and Azide free (ab239983)

Overlay histogram showing HeLa cells stained with unpurified **ab109519** (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (**ab109519**, 1/100) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (**ab96899**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109519**).



Anti-Galectin 8/Gal-8 antibody [EPR4857] - BSA and Azide free (ab239983)

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