

## Product datasheet

### Anti-Galectin 8/Gal-8 antibody [EPR4857] ab109519

Recombinant RabMAb

★★★★☆ **4 Abreviews** **12 References** [10 Images](#)

#### Overview

<b>Product name</b>	Anti-Galectin 8/Gal-8 antibody [EPR4857]
<b>Description</b>	Rabbit monoclonal [EPR4857] to Galectin 8/Gal-8
<b>Host species</b>	Rabbit
<b>Specificity</b>	This antibody has weak cross-reactivity with Galectin 9.
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB, IP, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	HepG2 or LNCaP cell lysate Human prostatic adenocarcinoma tissue IP: HeLa whole cell lysate.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA</p>
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal

Clone number	EPR4857
Isotype	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab109519 in the following tested applications.

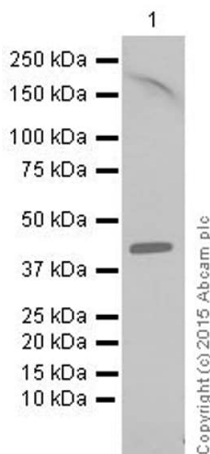
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/10 - 1/100. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (4)	1/1000 - 1/10000. Predicted molecular weight: 40 kDa.
IP		1/10 - 1/100.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <b>IHC antigen retrieval protocols</b> .
ICC/IF		1/50 - 1/100.

## Target

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

## Images



Western blot - Anti-Galectin 8/Gal-8 antibody  
[EPR4857] (ab109519)

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

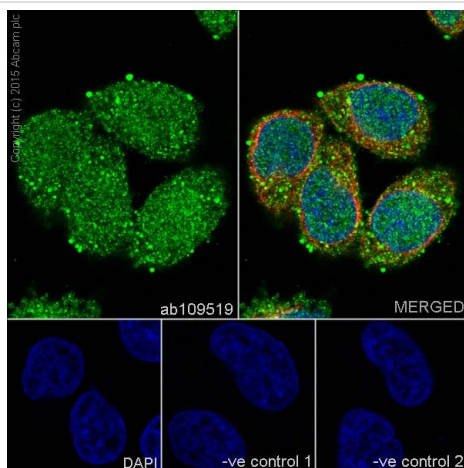
## Secondary

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

**Predicted band size:** 40 kDa

**Observed band size:** 40 kDa

Blocking and diluting buffer 5% NFDm/TBST

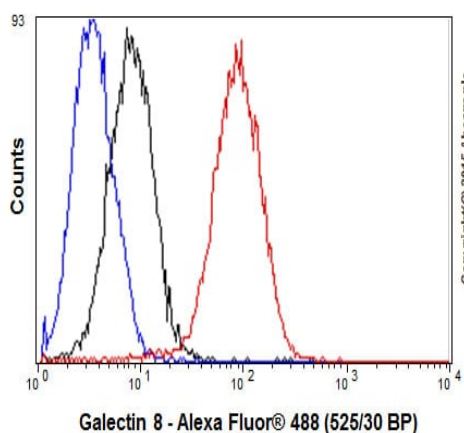


Immunocytochemistry/ Immunofluorescence - Anti-Galectin 8/Gal-8 antibody [EPR4857] (ab109519)

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](#))

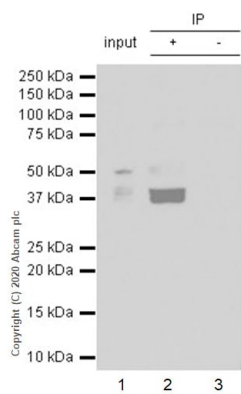


Flow Cytometry (Intracellular) - Anti-Galectin 8/Gal-8 antibody [EPR4857] (ab109519)

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.

Isotype control: Rabbit monoclonal IgG (Black)

Unlabelled control: Cell without incubation with primary antibody and secondary antibody (Blue)



Immunoprecipitation - Anti-Galectin 8/Gal-8 antibody  
[EPR4857] (ab109519)

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.

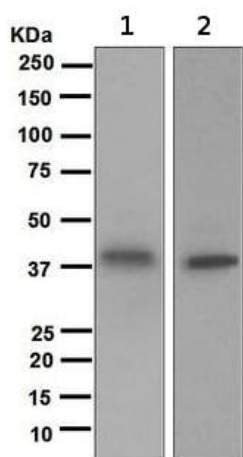
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of  
ab109519 in HeLa whole cell lysate.

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



Western blot - Anti-Galectin 8/Gal-8 antibody  
[EPR4857] (ab109519)

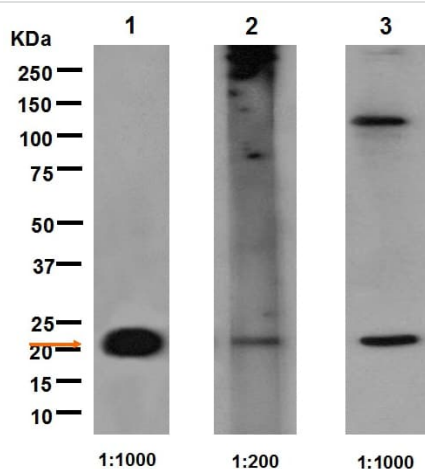
**All lanes** : Anti-Galectin 8/Gal-8 antibody [EPR4857] (ab109519)  
at 1/1000 dilution (unpurified)

**Lane 1** : HepG2 cell lysate

**Lane 2** : LNCaP cell lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 40 kDa



Western blot - Anti-Galectin 8/Gal-8 antibody  
[EPR4857] (ab109519)

**Lanes 1 & 3** : unpurified at 1/1000 dilution

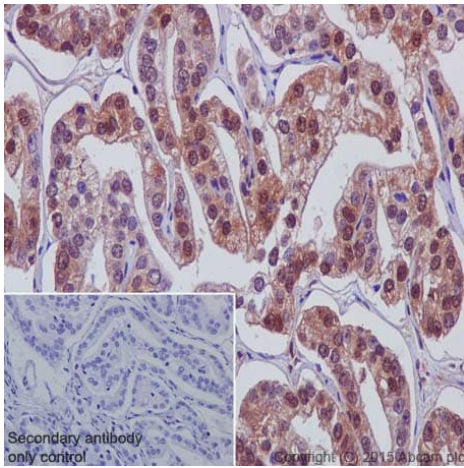
**Lane 2** : Anti-Galectin 8/Gal-8 antibody [EPR4857] (ab109519) at  
1/200 dilution (unpurified)

**All lanes** : Galectin 9 recombinant protein

Lysates/proteins at 0.02 µg per lane.

**Predicted band size:** 40 kDa

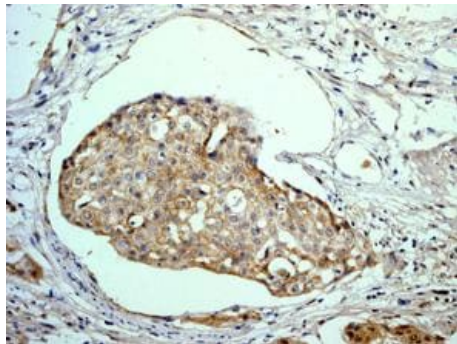
ab109519 has weak cross-reactivity with Galectin 9.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Galectin 8/Gal-8 antibody [EPR4857] (ab109519)

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.

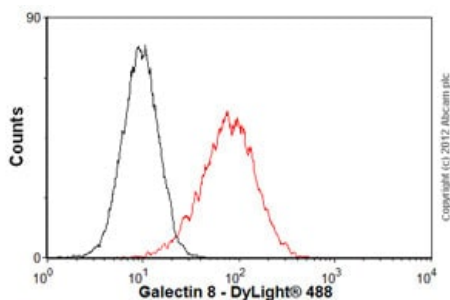
**Negative control 1:** PBS in place of primary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Galectin 8/Gal-8 antibody [EPR4857] (ab109519)

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

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



Flow Cytometry (Intracellular) - Anti-Galectin 8/Gal-8 antibody [EPR4857] (ab109519)

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<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Galectin 8/Gal-8 antibody [EPR4857]  
(ab109519)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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