abcam

Product datasheet

Anti-galectin 9/Gal-9 antibody [EPR22214] - Low endotoxin, Azide free ab246797

Recombinant   RabMAb

6 Images

Overview

Product name	Anti-galectin 9/Gal-9 antibody [EPR22214] - Low endotoxin, Azide free
Description	Rabbit monoclonal [EPR22214] to galectin 9/Gal-9 - Low endotoxin, Azide free
Host species	Rabbit
Specificity	This antibody is not recommended for mouse and rat in IHC.
Tested applications	**Suitable for:** IHC-P, WB, ICC/IF, Flow Cyt **Unsuitable for:** IP
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide within Human galectin 9/Gal-9 aa 250-350. The exact sequence is proprietary. Database link: O00182
Positive control	IHC-P: Human liver and colon tissue. ICC/IF: U937 cells. Flow Cyt: U937 cells.
General notes	ab246797 is a carrier-free antibody designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our Low endotoxin, azide-free formats have low endotoxin level (≤ 1 EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.

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.

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

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
Purification notes	Endotoxin level is less than 1 EU/ml as determined by the TAL test
Clonality	Monoclonal
Clone number	EPR22214
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab246797** 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 with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. This antibody is not recommended for human in IHC.
WB		Use at an assay dependent concentration. Predicted molecular weight: 40 kDa.
ICC/IF		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.
Application notes		Is unsuitable for IP.

Target

|	
Function	Binds galactosides. Has high affinity for the Forssman pentasaccharide. May play a role in thymocyte-epithelial interactions relevant to the biology of the thymus. Inhibits cell proliferation. It is a ligand for HAVCR2/TIM3. Induces T-helper type 1 lymphocyte (Th1) death. Isoform Short acts as an eosinophil chemoattractant.
Tissue specificity	Peripheral blood leukocytes and lymphatic tissues. Overexpressed in Hodgkin disease tissue.
Sequence similarities	Contains 2 galectin domains.
Domain	Contains two homologous but distinct carbohydrate-binding domains.
Cellular localization	Cytoplasm. Secreted. May also be secreted by a non-classical secretory pathway.

Images
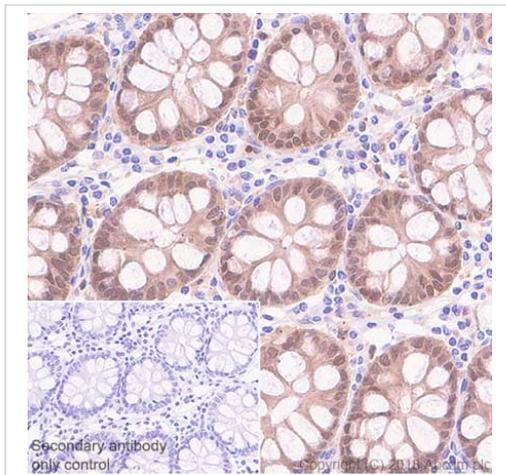
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-galectin 9/Gal-9 antibody [EPR22214] - Low endotoxin, Azide free (ab246797)

Immunohistochemical analysis of paraffin-embedded human colon tissue labeling galectin 9/Gal-9 with ab227046 at 1/1000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Nuclear and cytoplasmic staining on epithelial cells of human colon (PMID: 18202194) is observed. Counterstained with hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).
Perform heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab227046).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-galectin 9/Gal-9 antibody [EPR22214] - Low endotoxin, Azide free (ab246797)

Immunohistochemical analysis of paraffin-embedded human liver tissue labeling galectin 9/Gal-9 with ab227046 at 1/1000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Nuclear and cytoplasmic staining on Kupffer cells of human liver (PMID: 20209097, PMID: 18202194) is observed. Counterstained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab227046).
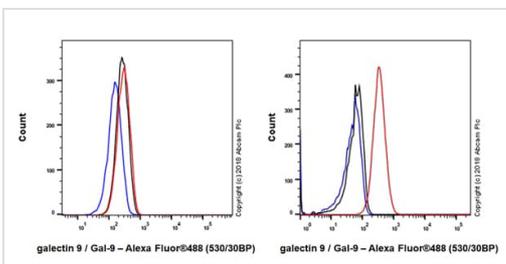
Flow Cytometry - Anti-galectin 9/Gal-9 antibody [EPR22214] - Low endotoxin, Azide free (ab246797)

Flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized PANC-1 (human pancreatic epithelial cancinoma cell line) (Left) / U937 (human histiocytic lymphoma cell line) (Right) cell line labeling galectin 9/Gal-9 with ab227046 at 1/500 (red) compared with a Rabbit monoclonal IgG (ab172730) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077), at 1/2000 dilution was used as the secondary antibody.

Negative Control - PANC-1 cells.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab227046).
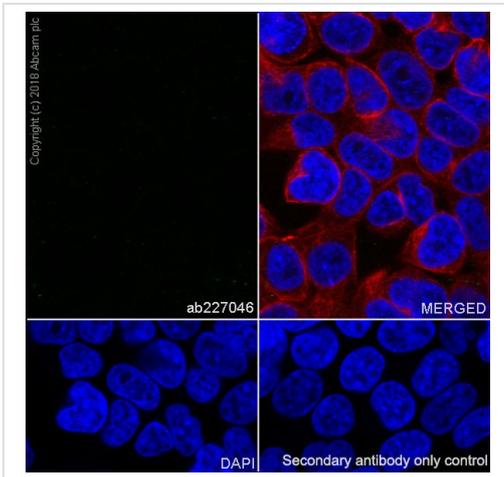
Immunocytochemistry/ Immunofluorescence - Anti-galectin 9/Gal-9 antibody [EPR22214] - Low endotoxin, Azide free (ab246797)
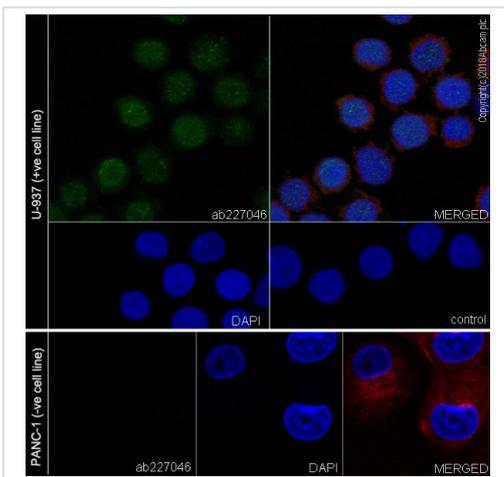
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HEK-293T (human epithelial cell line from embryonic kidney) cells labeling galectin 9/Gal-9 with ab227046 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green).

Confocal image showing no staining in HEK-293T cells

Negative control: HEK-293T (PMID: 11698107). The nuclear counterstain is DAPI (blue).

Counterstained with ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at a 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of the primary antibody, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) 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 (ab227046).

Immunocytochemistry/ Immunofluorescence - Anti-galectin 9/Gal-9 antibody [EPR22214] - Low endotoxin, Azide free (ab246797)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized U937 (human histiocytic lymphoma cell line) cells labeling galectin 9/Gal-9 with ab227046 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing nuclear and weakly cytoplasmic staining in U-937 cells. The nuclear counterstain is DAPI (blue). Counterstained with ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution.

PANC-1 (human pancreatic epithelial cancinoma cell line) cells stained in the same manner serve as a negative control.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab227046).

Anti-galectin 9/Gal-9 antibody [EPR22214] - Low

endotoxin, Azide free (ab246797)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors