abcam

Product datasheet

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

リコンビナント RabMAb

画像数 7

製品の概要

製品名	Anti-galectin 9/Gal-9 antibody [EPR22214] - Low endotoxin, Azide free
製品の詳細	Rabbit monoclonal [EPR22214] to galectin 9/Gal-9 - Low endotoxin, Azide free
由来種	Rabbit
特異性	This antibody is not recommended for mouse and rat in IHC.
アプリケーション	**適用あり:** IHC-P, WB, ICC/IF, Flow Cyt (Intra) **適用なし:** IP
種交差性	**交差種:** Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	IHC-P: Human liver and colon tissue. ICC/IF: U937 cells. Flow Cyt (intra): U937 cells. WB: THP-1 whole cell lysates.
特記事項	ab246797 is the carrier-free version of **ab227046**. 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**.

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.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	pH: 7.2 Constituent: PBS
キャリア・フリー	はい
精製度	Protein A purified
特記事項（精製）	Endotoxin level is less than 1 EU/ml as determined by the TAL test
ポリ/モノ	モノクローナル
クローン名	EPR22214
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab246797の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
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 (Intra)		Use at an assay dependent concentration.

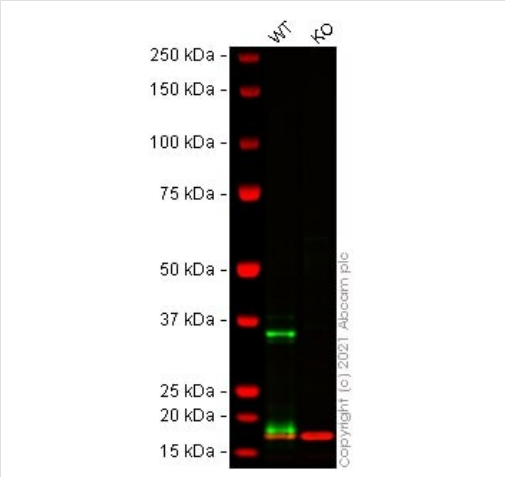
追加情報 Is unsuitable for IP.

ターゲット情報

機能 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.

組織特異性	Peripheral blood leukocytes and lymphatic tissues. Overexpressed in Hodgkin disease tissue.
配列類似性	Contains 2 galectin domains.
ドメイン	Contains two homologous but distinct carbohydrate-binding domains.
細胞内局在	Cytoplasm. Secreted. May also be secreted by a non-classical secretory pathway.

画像



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

All lanes : Anti-galectin 9/Gal-9 antibody [EPR22214] (**ab227046**) at 1/1000 dilution

Lane 1 : Wild-type THP-1 cell lysate
Lane 2 : LGALS9 knockout THP-1 cell lysate

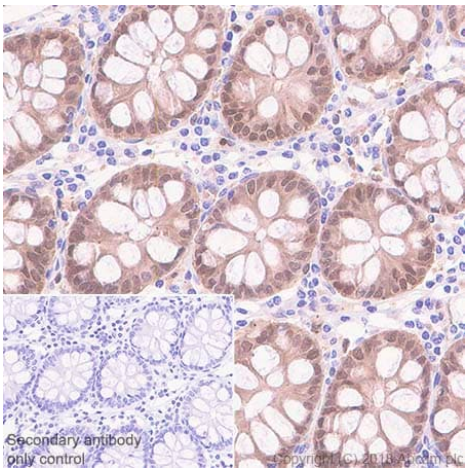
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 40 kDa
Observed band size: 35 kDa

Lanes 1 - 2: Merged signal (red and green). Green - **ab227046** observed at 35 kDa. Red - loading control Mouse anti Histone H3 observed at 18 kDa.

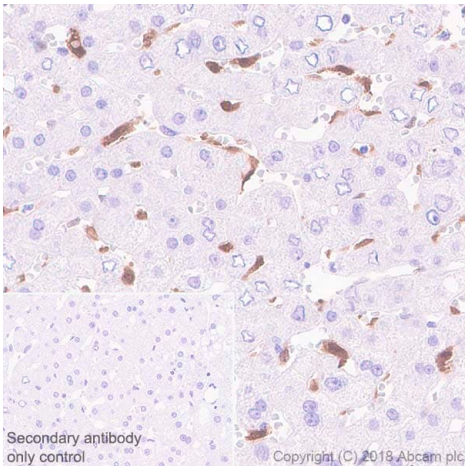
ab227046 was shown to react with galectin 9/Gal-9 in wild-type THP-1 cells in Western blot with loss of signal observed in LGALS9 knockout cell line **ab269505** (knockout cell lysate **ab269667**). Wild-type THP-1 and LGALS9 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with **ab227046** and Mouse anti Histone H3 overnight at 4 °C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



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).

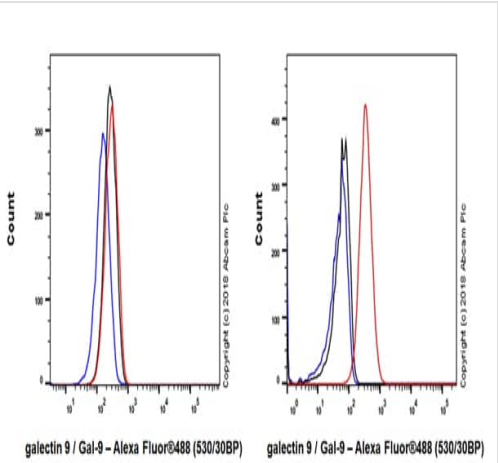
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab227046**).



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**).

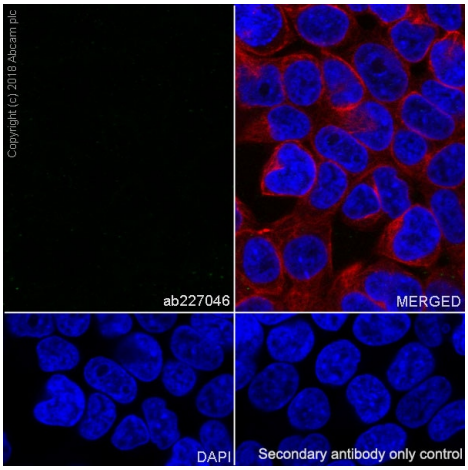


Flow Cytometry (Intracellular) - Anti-galectin 9/Gal-9 antibody [EPR22214] - Low endotoxin, Azide free (ab246797)

Intracellular 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**).



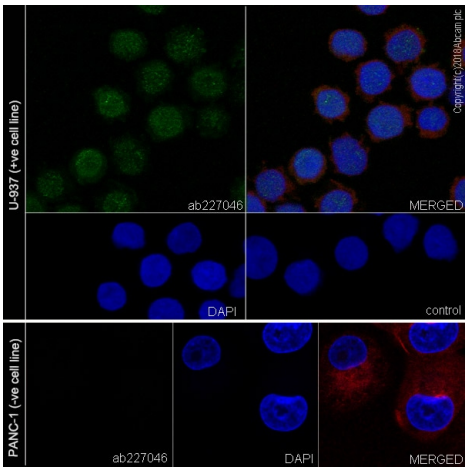
Immunocytochemistry/ Immunofluorescence - Anti-galectin 9/Gal-9 antibody [EPR22214] - Low endotoxin, Azide free (ab246797)

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**).



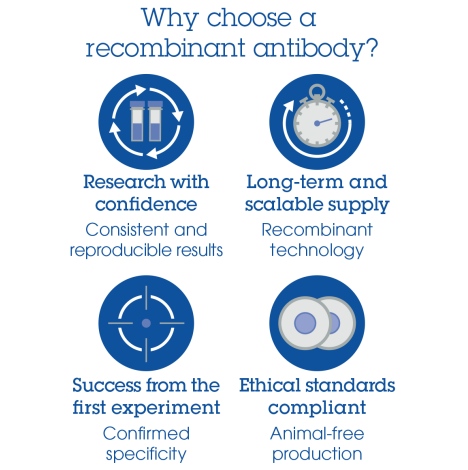
Immunocytochemistry/ Immunofluorescence - Anti-galectin 9/Gal-9 antibody [EPR22214] - Low endotoxin, Azide free (ab246797)

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**).



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