

Anti-galectin 9/Gal-9 antibody [EPR22214] - BSA and Azide free ab243288

KO 評価済 リコンビナント RabMAb

★★★★☆ 1 Abreviews 画像数 7

製品の概要

製品名	Anti-galectin 9/Gal-9 antibody [EPR22214] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR22214] to galectin 9/Gal-9 - BSA and 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: Flow Cyt (Intra), IHC-P, WB, ICC/IF 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	<p>ab243288 is the carrier-free version of ab227046.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p>

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

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
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ab243288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。

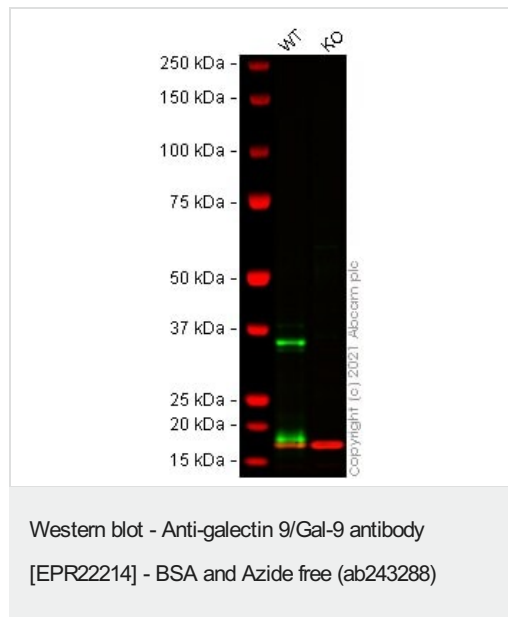
アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		Use at an assay dependent concentration.
IHC-P	★★★★★ (1)	Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. This antibody is not recommended for human in IHC.
WB		Use at an assay dependent concentration. Predicted molecular weight: 40 kDa.
ICC/IF		Use at an assay dependent concentration.

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.

画像



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.

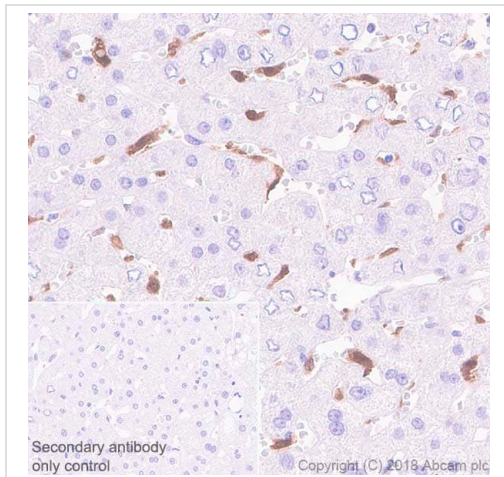
Performed under reducing conditions.

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] - BSA and Azide free (ab243288)

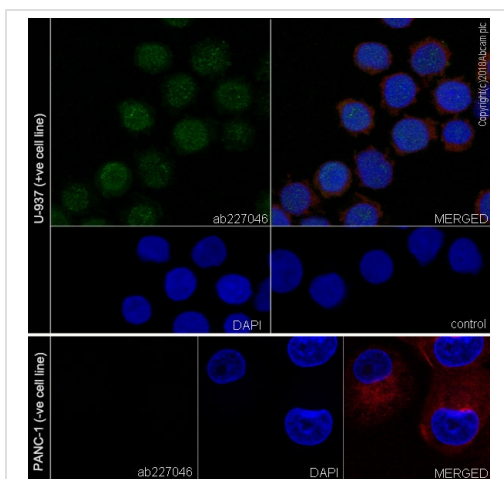
Immunohistochemical analysis of paraffin-embedded human liver tissue labeling galectin 9/Gal-9 with **ab227046** at 1/1000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP).

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**).



Immunocytochemistry/ Immunofluorescence - Anti-galectin 9/Gal-9 antibody [EPR22214] - BSA and Azide free (ab243288)

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).

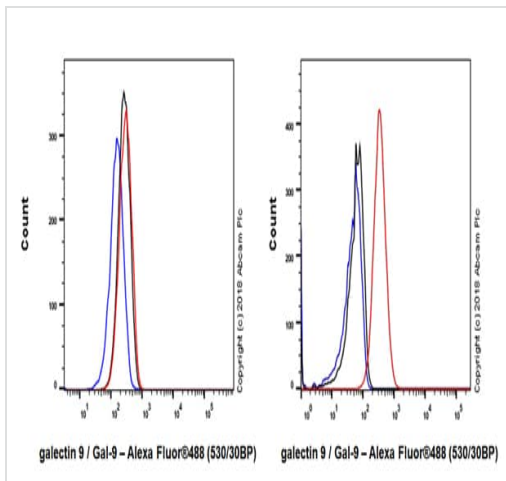
Confocal image showing nuclear and weakly cytoplasmic staining in U-937 cells. The nuclear counterstain is DAPI (blue).

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 carcinoma 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**).

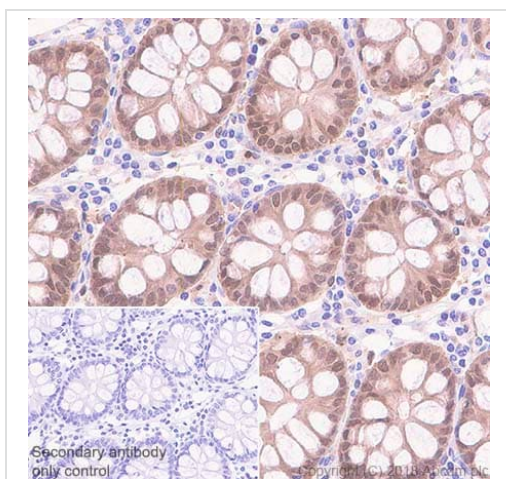


Flow Cytometry (Intracellular) - Anti-galectin 9/Gal-9 antibody [EPR22214] - BSA and Azide free (ab243288)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized PANC-1 (human pancreatic epithelial carcinoma 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](#)).



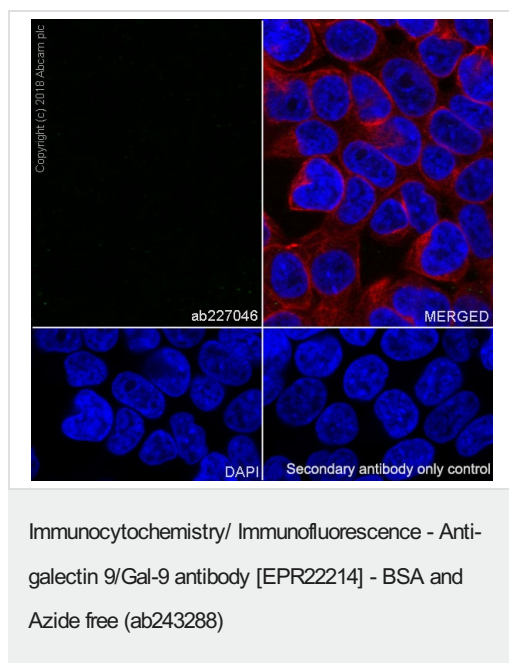
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-galectin 9/Gal-9 antibody [EPR22214] - BSA and Azide free (ab243288)

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](#)).



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**).

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 9/Gal-9 antibody [EPR22214] - BSA and Azide free (ab243288)

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