

Product datasheet

Anti-galectin 9/Gal-9 antibody ab69630

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Overview

Product name	Anti-galectin 9/Gal-9 antibody
Description	Rabbit polyclonal to galectin 9/Gal-9
Host species	Rabbit
Specificity	This antibody detects endogenous levels of total galectin 9/Gal-9 protein.
Tested applications	Suitable for: IHC-P, WB, ELISA, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human galectin 9/Gal-9 aa 51-100 (internal sequence). Database link: O00182
Positive control	NIH/3T3 cells. Extracts from HepG2 cells, human lymphoma
General notes	Previously labelled as galectin 9.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, 0.87% Sodium chloride, PBS without Mg ²⁺ and Ca ²⁺
Purity	Protein A purified
Purification notes	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab69630** in the following tested applications.

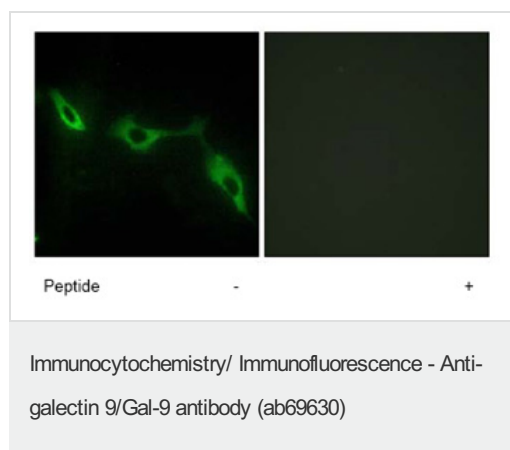
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 4 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB		1/500 - 1/1000. Detects a band of approximately 40 kDa (predicted molecular weight: 40 kDa).
ELISA		1/5000.
ICC/IF	★ ★ ★ ☆ ☆	1/500 - 1/1000.

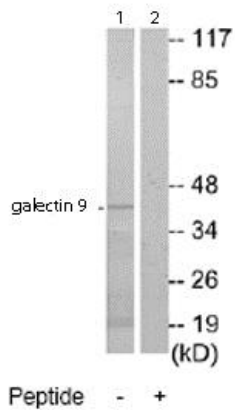
Target

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



Immunofluorescence analysis of NIH/3T3 cells using ab69630 at 1/500 dilution, with (right panel) or without (left panel) the immunising peptide.



Western blot - Anti-galectin 9/Gal-9 antibody (ab69630)

All lanes : Anti-galectin 9/Gal-9 antibody (ab69630) at 1/500 dilution

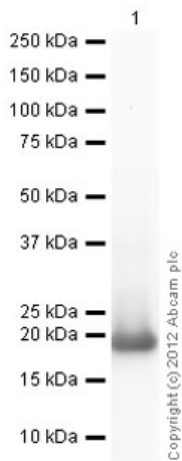
Lane 1 : Extracts from HepG2 cells

Lane 2 : Extracts from HepG2 cells with immunising peptide at 5 µg

Lysates/proteins at 5 µg per lane.

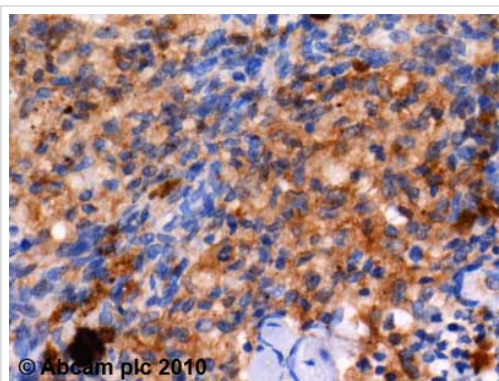
Predicted band size: 40 kDa

Observed band size: 40 kDa



Western blot - Anti-galectin 9/Gal-9 antibody (ab69630)

Ab69630 recognizes the partial tagged recombinant Human galectin 9/Gal-9 protein (galectin 1 domain only) which has an expected molecular weight of 19 kDa.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-galectin 9/Gal-9 antibody (ab69630)

ab69360 (4µg/ml) staining galectin 9 / Gal-9 in human lymphoma using an automated system (DAKO Autostainer Plus). Using this protocol there is cytoplasmic and secreted staining throughout the tumour.

Sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffer EDTA pH 9.0 in a DAKO PT link. Slides were peroxidase blocked in 3% H₂O₂ in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako envision flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that, for manual staining, optimization of primary antibody concentration and incubation time is recommended. Signal amplification may be required.

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