abcam

Anti-galectin 9/Gal-9 antibody [1G3] ab153673

★★★★☆ **2 Abreviews**   **8 References**   2 Images

Overview

Product name	Anti-galectin 9/Gal-9 antibody [1G3]
Description	Mouse monoclonal [1G3] to galectin 9/Gal-9
Host species	Mouse
Specificity	This antibody fails to detect endogenous natural samples in WB.
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment corresponding to Human galectin 9/Gal-9 (C terminal). Recombinant fragment produced in E. coli
Positive control	WB: HeLa transfected with galectin 9 / Gal-9 whole cell lysate IHC-P: Human normal Tonsil tissue
General notes	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**.

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. 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, along with publications, customer reviews and Q&As

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. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 6.97% L-Arginine Some batches contain 6.97% L-Arginine as a stabilizing agent. For lot-specific buffer information, please contact our Scientific Support team.
Purity	Protein G purified

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Clonality	Monoclonal
Clone number	1G3
Myeloma	Sp2/0-Ag14
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab153673 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
WB		Use a concentration of 1 - 5 µg/ml.
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

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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
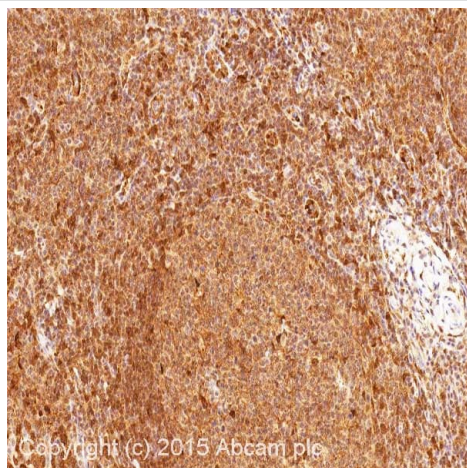
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-galectin 9/Gal-9 antibody [1G3] (ab153673)

IHC image of galectin 9/Gal-9 staining in Human normal Tonsil formalin fixed paraffin embedded tissue section*, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab153673, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre
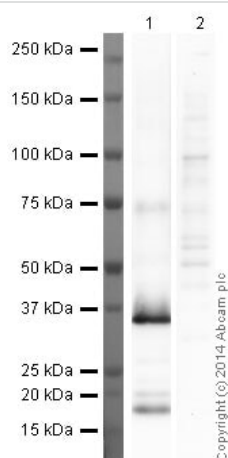
Western blot - Anti-galectin 9/Gal-9 antibody [1G3] (ab153673)

All lanes : Anti-galectin 9/Gal-9 antibody [1G3] (ab153673) at 5 µg/ml

Lane 1 : HeLa transfected with galectin 9 / Gal-9 whole cell lysate
Lane 2 : HeLa (wild type control) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat anti-mouse IgG polyclonal antibody (HRP conjugated) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Additional bands at: 18 kDa, 35 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 30 seconds

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