

Product datasheet

Anti-LAG-3 antibody [CAL77] ab237720

Recombinant

[5 Images](#)

Overview

Product name	Anti-LAG-3 antibody [CAL77]
Description	Rabbit monoclonal [CAL77] to LAG-3
Host species	Rabbit
Specificity	IHC-P is only recommended for human samples. We obtained negative staining results with mouse.
Tested applications	Suitable for: IHC-P, Flow Cyt Unsuitable for: ICC/IF, IP or WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide. This information is considered to be commercially sensitive.
Positive control	IHC-P: Human tonsil tissue. Flow Cyt: Human PBMC. Mouse splenocytes treated with ConA.
General notes	This product was previously labelled as Lymphocyte Activation Gene 3.

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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.05% Sodium azide Constituent: PBS
Purity	Protein A purified
Purification notes	Purity is greater than 99%.
Clonality	Monoclonal
Clone number	CAL77
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab237720** in the following tested applications.

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

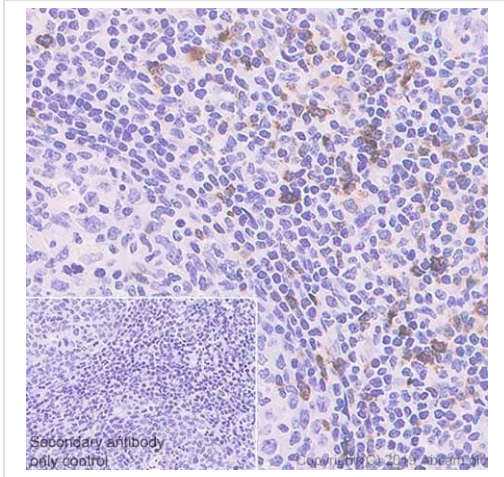
Application	Abreviews	Notes
IHC-P		1/900. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Flow Cyt		1/500.

Application notes Is unsuitable for ICC/IF,IP or WB.

Target

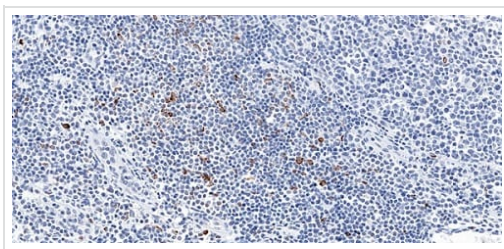
Function	Involved in lymphocyte activation. Binds to HLA class-II antigens.
Tissue specificity	On cell surface of activated NK and T-lymphocytes.
Sequence similarities	Contains 3 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Cellular localization	Membrane.

Images



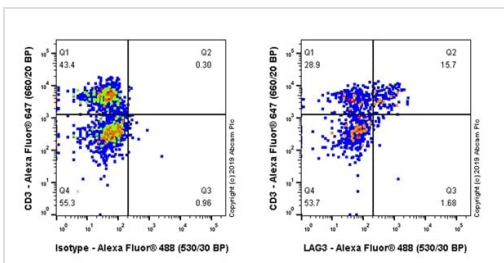
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LAG-3 antibody [CAL77] (ab237720)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling LAG-3 with ab237720 at 1/900 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining on the human tonsil is observed. The section was incubated with ab237720 for 15 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND[®] RX instrument. 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 with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 30 mins.



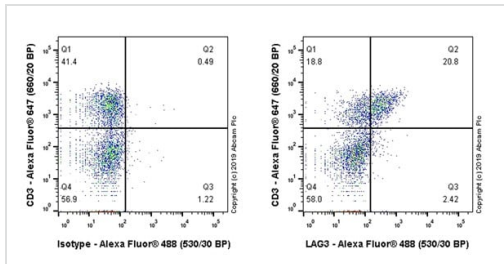
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LAG-3 antibody [CAL77] (ab237720)

Formalin-fixed, paraffin-embedded human tonsil tissue stained for LAG-3 with ab237720 at 0.25 µg/ml in immunohistochemical analysis.



Flow Cytometry - Anti-LAG-3 antibody [CAL77] (ab237720)

Flow cytometric analysis of 2% paraformaldehyde-fixed, 0.1% Tween-20 permeabilized human peripheral blood mononuclear cell (PBMC) treated with 10µg/ml PHA for 2 days, labeling LAG-3 with ab237720 at 1/500 (right panel) compared with a Rabbit monoclonal IgG (ab172730) (left panel). Goat anti rabbit IgG (Alexa Fluor[®] 488, ab150077), at 1/2000 dilution was used as the secondary antibody. Cells were surface stained with anti-CD3 conjugated to Alexa Fluor[®] 647. Then fixed with 2% PFA for 10min followed by intracellular staining with rabbit IgG (Left) and ab237720 (Right).



Flow Cytometry - Anti-LAG-3 antibody [CAL77]
(ab237720)

Flow cytometric analysis of 2% paraformaldehyde-fixed, 0.1% Tween-20 permeabilized mouse splenocytes treated with 2.5µg/ml Concanavalin A (ConA) for 3 days, labeling LAG-3 with ab237720 at 1/500 (right panel) compared with a Rabbit monoclonal IgG (ab172730) (left panel). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077), at 1/2000 dilution was used as the secondary antibody. Cells were surface stained with anti-CD3 conjugated to Alexa Fluor® 647. Then fixed with 2% PFA for 10min followed by intracellular staining with rabbit IgG (Left) and ab237720 (Right).

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

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

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