

Product datasheet

Anti-LAG-3 antibody [EPR20294-77] - BSA and Azide free ab236154

Recombinant RabMAb

3 Images

Overview

Product name	Anti-LAG-3 antibody [EPR20294-77] - BSA and Azide free
Description	Rabbit monoclonal [EPR20294-77] to LAG-3 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IP, ICC/IF, WB
Species reactivity	Reacts with: Mouse
Immunogen	Recombinant fragment within Mouse LAG-3 aa 1-250. The exact sequence is proprietary. Database link: Q61790
Positive control	ICC/IF: Concanavalin A treated mouse splenocytes.
General notes	<p>ab236154 is the carrier-free version of ab209238 This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.</p> <p>Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.</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>Ab236154 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm. <i>Maxpar® is a trademark of Fluidigm Canada Inc.</i></p> <p>This product was previously labelled as Lymphocyte Activation Gene 3.</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> <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.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next</p>

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. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR20294-77
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab236154** in the following tested applications.

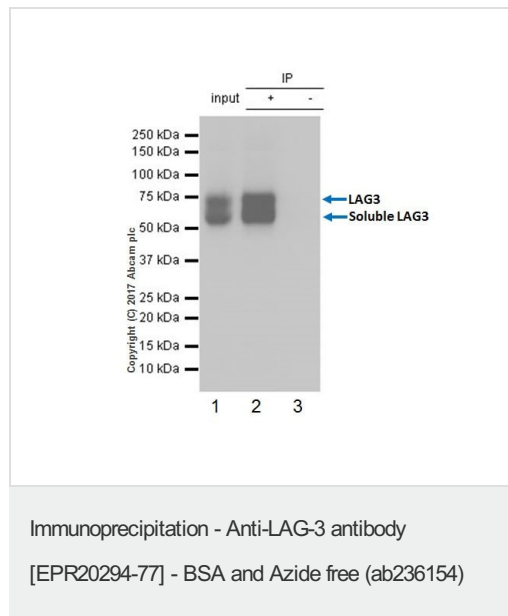
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 54, 70 kDa (predicted molecular weight: 57 kDa).

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



LAG-3 was immunoprecipitated from 0.35 mg of mouse splenocytes (treated with 5 µg/ml concanavalin A for 72 hours) whole cell lysate with [ab209238](#) at 1/30 dilution. Western blot was performed from the immunoprecipitate using [ab209238](#) at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/1000 dilution.

Lane 1: Mouse splenocytes (treated with 5 µg/ml concanavalin A for 72 hours), whole cell lysate 10µg (Input).

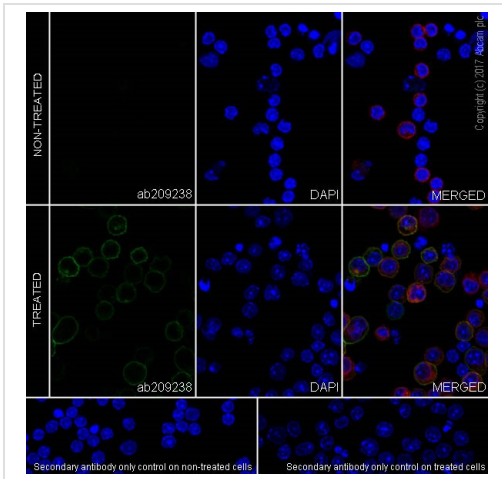
Lane 2: [ab209238](#) IP in mouse splenocytes (treated with 5 µg/ml concanavalin A for 72 hours), whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab209238](#) in mouse splenocytes (treated with 5 µg/ml concanavalin A for 72 hours), whole cell lysate.

Blocking and dilution buffer: 5% NFDm/TBST.

Exposure time: 1 second.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab209238](#)).



Immunocytochemistry/ Immunofluorescence - Anti-LAG-3 antibody [EPR20294-77] - BSA and Azide free (ab236154)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized untreated and concanavalin A (2.5 µg/ml for 72 hours) treated mouse splenocytes labeling LAG-3 with [ab209238](#) at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing increased membranous staining following treatment of mouse splenocytes with concanavalin A (2.5 µg/ml for 72 hours) (PMID 20391435; PMID 26318293; PMID 11527700; PMID 19631993).

The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) ([ab195889](#)) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) 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 ([ab209238](#)).

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

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

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