

For Research Use Only

Anti-Human LAG-3/CD223 Rabbit Recombinant Antibody

Catalog Number: 98435-3-RR



Basic Information

Catalog Number:

98435-3-RR

Size:

100ug, 1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG31550

GenBank Accession Number:

NM_002286

GeneID (NCBI):

3902

UNIPROT ID:

P18627

Full Name:

Lymphocyte-activation gene 3

Calculated MW:

57 kDa

Purification Method:

Protein A purification

CloneNo.:

243086H8

Recommended Dilutions:

IHC: 1:500-1:2000

FC: 0.25 µg per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

IHC, FC

Species Specificity:

human

Note-IHC: suggested antigen retrieval with *TE buffer pH 9.0*; (*) Alternatively, antigen retrieval may be performed with *citrate buffer pH 6.0*

Positive Controls:

IHC: human tonsillitis tissue,

FC: anti-CD3/CD28 and IL-2 treated human PBMCs,

Background Information

LAG-3, also known as CD223, is an immune checkpoint molecule that regulates both T-cell activation and homeostasis. LAG-3 is expressed on activated T cells, NK cells, regulatory T cells, and plasmacytoid dendritic cells. It is a CD4-related molecule that binds MHC class II. LAG-3 plays an important role in modulating T cell expansion and function, and blockade of LAG-3 with monoclonal antibodies can augment T cell function. (PMID: 15634887; 21086108; 28783703)

Storage

Storage:

Store at 2 - 8°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

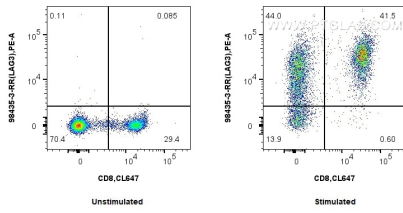
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

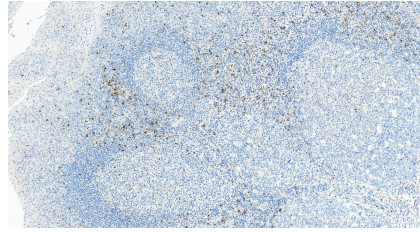
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

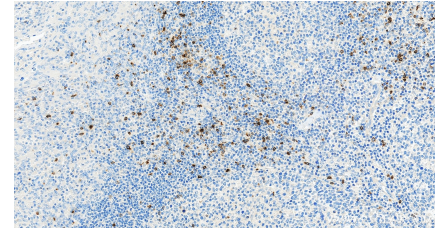
Selected Validation Data



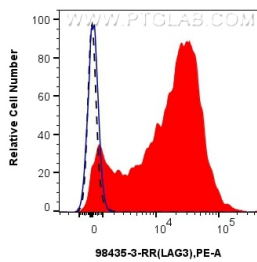
1x10⁶ untreated or anti-CD3/CD28 and IL-2 treated human PBMCs were surface stained with 0.25 ug Anti-Human LAG3 Rabbit RecAb (98435-3-RR, Clone:243086H8) and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were co-stained with CoraLite® Plus 647 Anti-Human CD8 (UCHT4) Mouse IgG2a Recombinant Antibody (CL647-65559, Clone: UCHT4). Cells were not fixed.



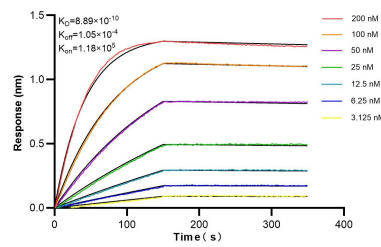
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 98435-3-RR (LAG3 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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1x10⁶ anti-CD3/CD28 and IL-2 treated human PBMCs were surface stained with 0.25 ug Anti-Human LAG3 Rabbit RecAb (98435-3-RR, Clone: 243086H8) (red) or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). 1x10⁶ untreated human PBMCs were surface stained with 0.25 ug Anti-Human LAG3 Rabbit RecAb (98435-3-RR, Clone: 243086H8) and PE-Conjugated Goat Anti-Rabbit IgG(H+L) (black, dashed).



Biolayer interferometry (BLI) kinetic assays of 98435-3-RR against Human LAG-3/CD223 were performed. The affinity constant is 0.889 nM.