

LAG-3 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50215

Clone# BP6192

Predicted Molecular Wt: 57kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P18627

Background:

Lymphocyte activation gene 3 (LAG-3, CD223) is an immune checkpoint control protein that negatively regulates T cells and immune responses. A CD4-like member of the Ig superfamily, LAG3 contains an extracellular IgV and three IgC domains, a transmembrane domain, and a short cytoplasmic region. LAG3 is primarily expressed by activated CD4+ T cells, CD8+ T cells, Tregs and NK cells, where it's activated by MHC Class II molecules, its only known ligand. While it was initially shown to activate Treg cells, LAG3 can also inhibit CD8+ T cells. LAG3 is often co-expressed with PD-1 on the surface of tumor infiltrating lymphocytes, where the two proteins act independently to contribute to tumor-mediated immune suppression. Blockade of LAG3 is a promising strategy for neoplastic intervention.

Subcellular location:

Membrane

Recommended method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide within Human LAG-3.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

-25°C to -18°C

Storage instructions:

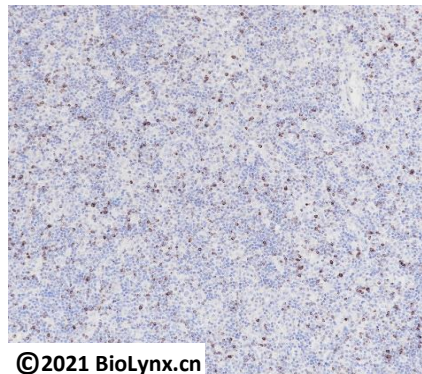
Shipped on blue ice. Upon delivery, aliquot, and store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

IHC-P: 1:100-1:200

Background References:

1. Matsuzaki, J. et al. (2010) Proc Natl Acad Sci U S A 107, 7875-80.
2. Woo, S.R. et al. (2012) Cancer Res 72, 917-27.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lymphoma tissue labelling LAG-3 with BP6192. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.