

PE-Labeled Monoclonal Anti-Human CD223 / LAG-3 Antibody, Mouse IgG1 (AS659) (0.03% Proclin)

Catalog # FABm061-01



Source

Monoclonal Anti-Human CD223 / LAG-3 Antibody, Mouse IgG1 (AS659) is a mouse monoclonal antibody, which provides higher batch consistency and long term security of supply.

Clone

AS659

Isotype

Mouse IgG1, Kappa

Host Species

Mouse

Reactivity

Human

Immunogen

Purified Human CD223 / LAG-3 epsilon Protein

Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

Specificity

This product is a specific antibody specifically reacts with CD223 / LAG-3 epsilon protein.

Application

Flow Cytometry (Evaluation of the expression of CD223 / LAG-3 on Human cells).

Recommended Dilution

1:20

Isotype Control

The isotype control is sold separately; please refer to Cat. No. [DNP-PM1](#) for product information.

Form

Liquid

Formulation

Supplied as 0.2 µm-filtered solution in PBS (pH 7.4) containing 0.03% ProClin 300 and 0.2% BSA, with trehalose as protectant.

Please contact us for customized product forms or formulations.

Shipping

Liquid product is shipped at blue ice.

Storage

Please protect from light and avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- Store at 2-8 °C for 12 months.

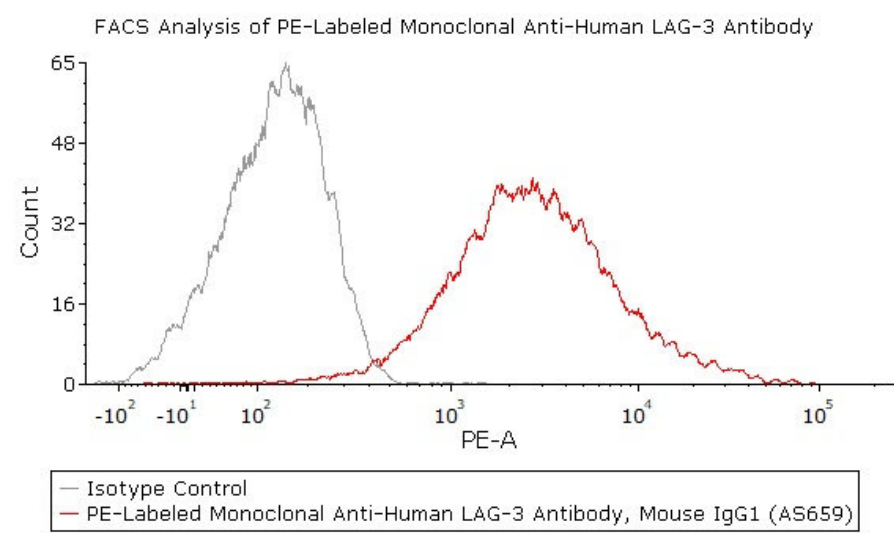
Notices

Product Specific Notices: For research use only.

ACRO Quality Management System

- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)

Bioactivity-FACS



Flow cytometric analysis of Human PD-1/LAG-3 (Luc) Jurkat Reporter cell staining with PE-Labeled Monoclonal Anti-Human LAG-3 Antibody, Mouse IgG1 (AS659) (Cat. No. FABm061-01) at 1:20 dilution (5 μ L of the antibody stock solution corresponds to labeling of 1e6 cells in a final volume of 100 μ L), compared with isotype control antibody. PE signal was used to evaluate the binding activity (QC tested).

Background

This PE-conjugated anti-human CD223 (LAG-3) antibody specifically recognizes CD223 (Lymphocyte Activation Gene 3/Protein FDC), a high-performance tool for immunoregulatory research. CD223 (LAG-3) is a ~70 kDa Ig superfamily transmembrane glycoprotein, homologous to CD4, critical for T-cell signaling. Expressed on activated T cells, NK cells and Tregs (higher on CD8⁺ than CD4⁺ T cells), transient in acute activation but sustained under tolerance. As an activation-induced molecule, CD223 binds MHC class II with higher affinity than CD4 (competitive inhibition), associates with TCR-CD3 to downregulate signaling and T-cell expansion (negative T-cell regulation), and promotes dendritic cell activation. CD223 deficiency inhibits tumor growth; synergizes with PD-1 to reverse T-cell exhaustion, enhance tumor rejection and control viral loads. This antibody facilitates CD223 detection, immune mechanism study and tumor immunotherapy research.

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