LAG-3 (human):Fc (human), (recombinant)

The lymphocyte activation gene-3 (LAG-3, CD223), a member of the immunoglobulin superfamily (IgSF) related to CD4, binds to the major histocompatibility complex (MHC) class II molecules but with higher affinity than CD4. Several alternative mRNA splice-variants of human LAG-3 have been described, two of them encoding potential secreted forms: LAG-3V1 (i.e. the D1-D2 domains of the protein, 36 kDa) and LAG-3V3 (D1-D3, 52 kDa). The longer form was detected by ELISA in the serum of healthy individuals as well as of tuberculosis patients with a favorable outcome. LAG-3 expression by T cell clones correlated with IFN-γ production, and hence soluble LAG-3 has been suggested as a serological marker of Th1 responses.

Citations: 7 View Online »

Ordering Information

Order Online »

ALX-522-078-C050	50µg

Manuals, SDS & CofA

View Online »

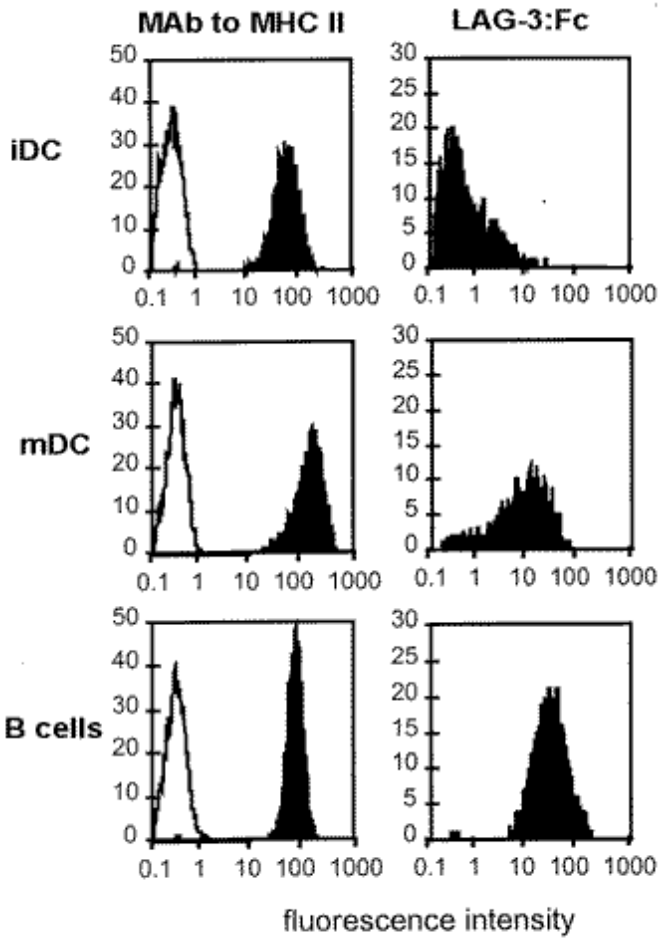


Figure 1: Binding of LAG-3 (human):Fc (human) (rec.) (Prod. No. ALX-522-078) on dendritic and B cells. **Method:** Monocyte-derived immature DC (iDC), DC matured for 48h with LPS (mDC) and EBV-transformed B-cells are incubated with either an anti-MHC class II MAb (10µg/ml) or LAG-3 (human):Fc (human) (rec.) (10µg/ml) for 30 min. at 4°C in PBS/1% BSA. The cells are then stained for 30 min. at 4°C with FITC-labeled goat anti-human Fc antibodies. The open histograms correspond negative control labeling [3]. “”,LAG-3 (human):Fc (human)

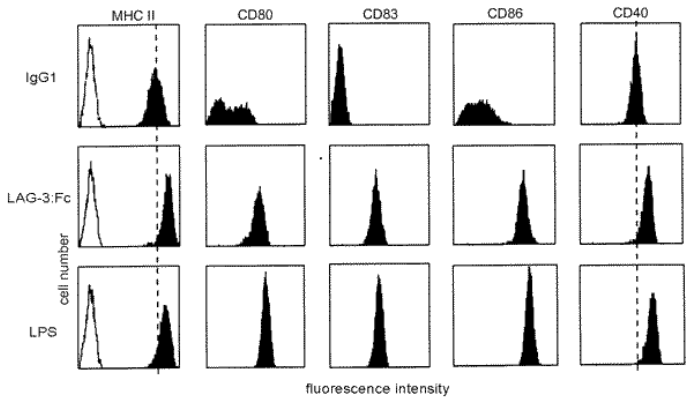


Figure 2: rhLAG-3:Fc-induced dendritic cells (DC) maturation.**Method:** Immature DC derived from human monocytes, resuspended at 1×10^6 cells/ml in complete culture medium, are incubated with LAG-3 (human):Fc (human) (rec.) (Prod. No. ALX-522-078) (10µg/ml), LPS (positive control, 5µg/ml) or human IgG1 (isotype-matched negative control, 10µg/ml) for 48 hours. DC maturation induced by rhLAG-3:Fc binding to MHC class II or LPS is assessed by the increased expression of MHC Class II, CD80, CD83, CD86 and CD40 [3].”””,LAG-3 (human):Fc (human)

Handling & Storage

Use/Stability	Stable for at least 6 months after receipt when stored at -20°C.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Lymphocyte activation gene-3, FDC protein, CD223
Application Notes	Flow Cytometry: Detection of MHC class II molecules in combination with fluorescently labelled Ab to IgG1.
Biological Activity	Inhibits binding of MAb to LAG-3 (human) to LAG-3. Induces maturation of human dendritic cells.
Formulation	Liquid. In PBS.
MW	~80kDa (SDS-PAGE).
Purity	≥99% (SDS-PAGE)
Source	Produced in CHO cells. The sequence coding for the 4 extracellular Ig-like domains of human LAG-3 (D1-D4) is fused to the Fc portion of human IgG1.
Specificity	Binds to human, mouse and monkey MHC class II.
UniProt ID	P18627

Last modified: May 29, 2024

ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

For local distributors and detailed product information visit us online: enzo.com All product names, logos, and brands are the property of their respective owners.