# LAG-3 (human) monoclonal antibody (17B4) (ATTO 647N conjugate)

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.

**This antibody is covered by our Worry-Free Guarantee.**

**Citations:** 16 View Online »

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| **ALX-804-806TS-T100** | ATTO 647N - 100 tests |

## Manuals, SDS & CofA View Online »

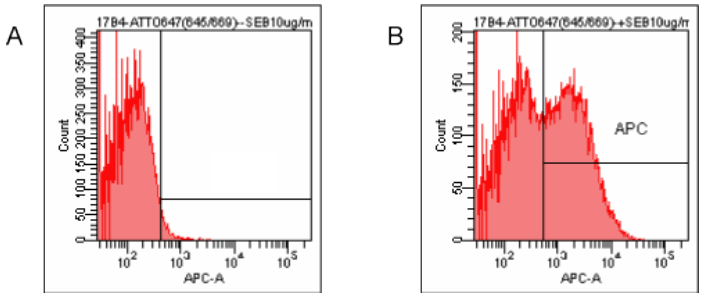


**Figure:** Detection of endogenous human LAG-3 by FACS analysis using LAG-3 (human), mAb (17B4) (ATTO 647) (Prod. No. ALX-804-806TS)**Method:** Human PBMC were stimulated (B) or not (A) with 1µg/ml of superantigen SEB. After 2 days PBMC were stained with 10µg/ml (1µg/0.5×$10^6$ cells) of LAG-3 (human), mAb (17B4) (ATTO 647) (Prod. No. ALX-804-806TS) and analyzed by flow cytometry.

## Handling & Storage

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| **Use/Stability** | Stable for at least 6 months after receipt when stored as recommended. |
| **Handling** | Avoid vigorous centrifugation and vortexing. Do not freeze. Protect from light. |
| **Short Term Storage** | +4°C |
| **Long Term Storage** | +4°C |
| **Shipping** | Blue Ice |

## Regulatory Status

RUO - Research Use Only

## Product Details

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| **Alternative Name** | Lymphocyte activation gene-3, FDC protein, CD223 |
| **Application** | Flow Cytometry, ICC |
| **Clone** | 17B4 |
| **Formulation** | Liquid. In PBS containing 50mM Tris, 1% BSA and 0.02% sodium azide. |
| **Host** | Mouse |
| **Immunogen** | Synthetic peptide corresponding to 30 aa (GPPAAAPGHPLAPGPHPAAPSSWGPRPRRY) from the first N-terminal D1 domain of human LAG-3 (lymphocyte activation gene-3). |
| **Isotype** | IgG1 |
| **Purity Detail** | Purified from concentrated hybridoma tissue culture supernatant by Protein A Sepharose™ CL-4B Flow Fast Column. |
| **Recommendation Dilutions/Conditions** | Flow Cytometry (1:100)Suggested dilutions/conditions may not be available for all applications.Optimal conditions must be determined individually for each application. |
| **Source** | Purified from hybridoma tissue culture supernatant. |
| **Species Reactivity** | Human |
| **Specificity** | Recognizes the 30 aa extra-loop of the first N-terminal D1 domain of LAG-3. |

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| **Technical Info / Product Notes** | **1 test means:** 1µl of MAb is used to stain 500’000 cells in a sample volume of 50µl.<br><br>ATTO-fluorescent antibodies show increased photostability, outstanding brightness and intense signals. ATTO dyes are thermally stable, resistant to environmental changes and show no significant isomerization. ATTO 647N shows red fluorescence (λabs (max): 645nm, λem (max): 669nm, εmax: 120’000).<br><br>SEPHAROSE is a trademark of GE Healthcare companies. |
| **UniProt ID** | P18627 |
| **Worry-free Guarantee** | **This antibody is covered by our Worry-Free Guarantee.** |

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