# LAG3
# Recombinant Human LAG-3:Fc Chimera

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| **Catalog No.** | CRH048 | **Quantity:** | 50 µg |
| **Alternate Names:** | CD223 | | |
| **Description:** | Lymphocyte activation gene 3 (LAG-3; CD223) plays an important role in negatively regulating T cell proliferation, function and homeostasis. It is required for maximal natural and induced regulatory T cell (Treg) function. LAG-3 is closely related to the T cell co-receptor CD4 and binds to MHC class II molecules but with a significantly higher affinity than CD4.<br>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. | | |
| **Concentration:** | 0.5 mg/ml | | |
| **Gene ID:** | 3902 | | |
| **Protein Accession No:** | P18627 | | |
| **Source:** | CHO cells | | |
| **Molecular Weight:** | ~80 kDa by SDS-PAGE | | |
| **Formulation:** | Liquid in PBS. | | |
| **Purity:** | ≥99% (SDS-PAGE) | | |
| **Endotoxin Level:** | <0.1 EU/µg purified protein as determined by LAL test (Lonza). | | |
| **Specificity:** | Binds to human, mouse and monkey MHC class II. | | |
| **Biological Activity:** | Inhibits binding of anti-human LAG-3 mAb to LAG-3. Induces maturation of human dendritic cells. | | |
| **Handling:** | PBS containing at least 0.1% BSA should be used for further dilutions. | | |
| **Applications:** | Flow Cytometry: Detection of MHC class II molecules in combination with fluorescently labeled antibodies to IgG1. | | |
| **Storage & Stability:** | Store at 4°C upon arrival and at -20°C for long term. For long term storage, prepare aliquots. Stable for up to 6 month at -20°C. **Avoid repeated freeze-thaw cycles.** | | |

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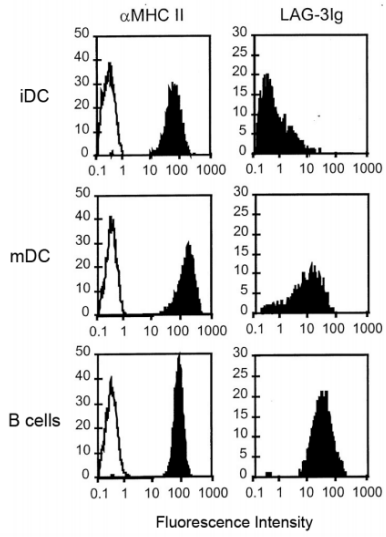
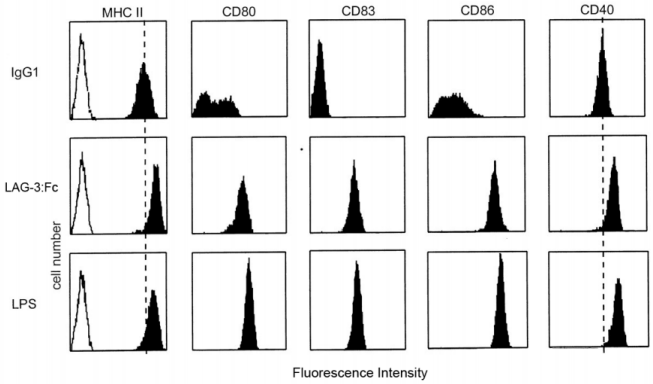
Binding of Recombinant Human LAG-3:Fc Chimera to dendritic and B cells. Monocyte-derived immature DC (iDC), DC matured with LPS (mDC) and EBV-transformed B cells were incubated with either an anti-MHC class II mAb (10 µg/ml) or Recombinant Human LAG-3:Fc (10 µg/ml) and stained with FITC-labeled goat anti-human Fc antibodies.




Recombinant Human LAG-3:Fc-induced dendritic cell (DC) maturation. Immature DCs derived from human monocytes were incubated with Recombinant Human LAG-3:Fc (10 µg/ml), LPS (5 µg/ml) or human IgG1 (10 µg/ml) for 48 hours. DC maturation was assessed by the increased expression of MHC Class II, CD80, CD83, CD86 and CD40.

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