

Human LAG3 Detection Kit | LAG3 detection kit

LAG3 Detection Set

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA41010	llama	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, ELISA

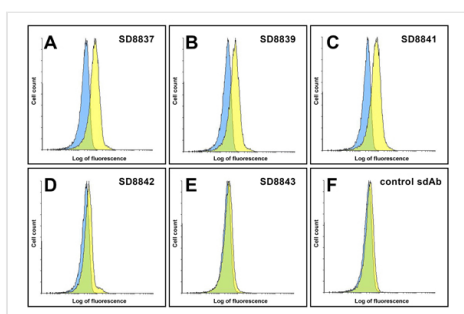
PRODUCT SYNONYMS

LAG3; LAG3 Detection Set; LAG3 detection kit

PRODUCT SPECIFICATIONS

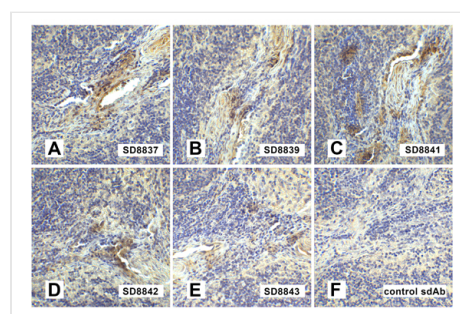
Host	llama
Reactivity	Human
Purity/Purification	LAG3 Antibodies are affinity chromatography purified via Nickel column. Antibodies are supplied as a His-tagged purified protein. They also contains a myc-tag for detection.
Form/Format	Liquid; LAG3 Antibodies are supplied in PBS.
Concentration	1mg/mL (varies by lot)
Immunogen	LAG3 antibodies were raised against a recombinant protein corresponding to amino acids 23-434 of human LAG3.
Applicable Applications for LAG3 detection kit	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA
Preparation and Storage	LAG3 antibodies should be stored in working aliquots at -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

IMAGES



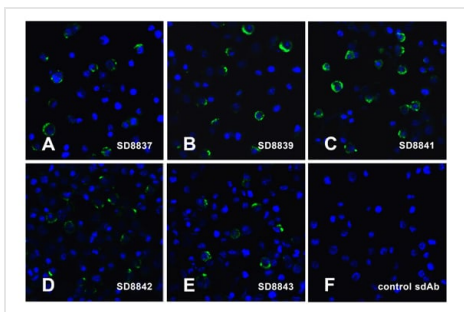
FCM/FACS (Flow Cytometry)

Flow cytometry analysis of LAG-3 in over expressing HEK293 cells using (A) SD8837, (B) SD8839, (C) SD8841, (D) SD8842, (E) SD8843, and (F) Negative control SD8733. Single domain antibodies at 1ug/ml. Blue: untransfected HEK293 cells. Yellow: LAG-3 over expressing HEK293 cells.



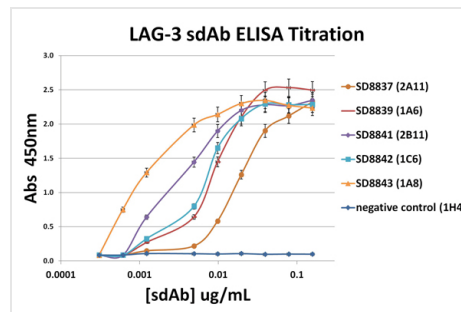
IHC (Immunohistochemisry)

Immunohistochemistry of LAG-3 in human lymph node tissue using (A) SD8837, (B) SD8839, (C) SD8841, (D) SD8842, (E) SD8843, and (F) SD8733 negative control sdAb. Single domain antibodies at 1ug/ml.



IF (Immunofluorescence)

Immunofluorescence of LAG-3 in over expressing HEK293 cells using (A) SD8837, (B) SD8839, (C) SD8841, (D) SD8842, (E) SD8843, and (F) SD8733 negative control sdAb. Single domain antibodies at 5ug/ml.



ELISA

Titration ELISA analysis of LAG-3 sdAbs to detect recombinant LAG-3 (extracellular domain) coated at 1ug/mL. sdAbs are detected with a mouse mAb against a C-terminal myc-tag followed by a goat anti-mouse IgG-HRP conjugate. SD8837, SD8839, SD8841, SD8842, SD8843, and negative control sdAb 1H4 at decreasing concentrations.

ADDITIONAL INFORMATION

Related Product Information for LAG3 detection kit	The lymphocyte activation gene-3 (LAG3) is a member of the immunoglobulin superfamily and binds MHC class II with high affinity (1), negatively regulating T-cell function and homeostasis (2). It is expressed in B, T, and NK cells, monocytes, and dendritic cells (3), and acts to regulate T cell expansion (4). LAG3 is also an important immune checkpoint protein, with anti-LAG3 antibodies activating T effector cells and affecting regulatory T cell functions. Furthermore LAG3 appears to act in a synergistic fashion with PD-1/PD-L1, suggesting that a dual antibody approach may prove useful in cancer immunotherapy.
Product Categories/Family for LAG3 detection kit	Detection Sets
References	Huard B, Tournier M, Hercend T, et al. Lymphocyte-activation gene 3/major histocompatibility complex class II interaction modulates the antigenic response of CD4+ T lymphocytes. Eur J Immunol 1994; 24:3216-21. Triebel F. LAG-3: a regulator of T-cell and DC responses and its use in therapeutic vaccination. Trends Immunol 2003; 24:619-22. Workman CJ, Wang Y, El Kasmi KC, et al. LAG-3 regulates plasmacytoid dendritic cell homeostasis. J Immunol. 2009; 182:1885-91. Workman CJ, Vignali DA. The CD4-related molecule, LAG-3 (CD223), regulates the expansion of activated T cells. Eur J Immunol 2003; 33:970-9.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.