

Anti-LAIR1 Reference Antibody (Lilly patent anti-LAIR1)

Catalog # APR11332

Product Information

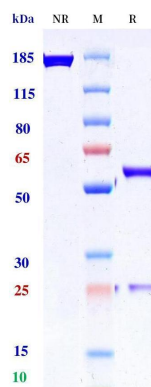
Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	Q6GTX8
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG4SP-noK
Calculated MW	31469

Additional Information

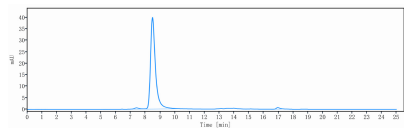
Target/Specificity	LAIR1
Expression system	CHO

Protein Information

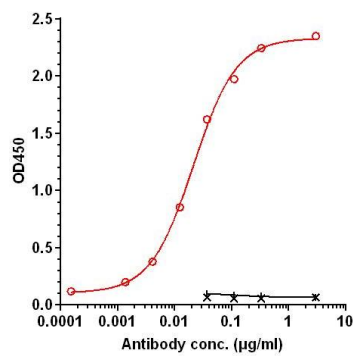
Name	LAIR1
Synonyms	CD305
Function	Functions as an inhibitory receptor that plays a constitutive negative regulatory role on cytolytic function of natural killer (NK) cells, B-cells and T-cells. Activation by Tyr phosphorylation results in recruitment and activation of the phosphatases PTPN6 and PTPN11. It also reduces the increase of intracellular calcium evoked by B-cell receptor ligation. May also play its inhibitory role independently of SH2-containing phosphatases. Modulates cytokine production in CD4+ T- cells, down-regulating IL2 and IFNG production while inducing secretion of transforming growth factor beta. Also down-regulates IgG and IgE production in B-cells as well as IL8, IL10 and TNF secretion. Inhibits proliferation and induces apoptosis in myeloid leukemia cell lines as well as prevents nuclear translocation of NF-kappa-B p65 subunit/RELA and phosphorylation of I-kappa-B alpha/CHUK in these cells. Inhibits the differentiation of peripheral blood precursors towards dendritic cells.
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Expressed on the majority of peripheral mononuclear cells, including natural killer (NK) cells, T-cells, B-cells, monocytes, and dendritic cells. Highly expressed in naive T-cells and B-cells but no expression on germinal center B-cells. Abnormally low expression in naive B-cells from HIV-1 infected patients. Very low expression in NK cells from a patient with chronic active Epstein-Barr virus infection.



Anti-LAIR1 Reference Antibody (Lilly patent anti-LAIR1) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-LAIR1 Reference Antibody (Lilly patent anti-LAIR1) is 97.35%, determined by SEC-HPLC.



Immobilized hu-LAIR1-ECD-His at 2 µg/mL can bind Lilly patent anti-LAIR1, EC50= 0.02138 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.