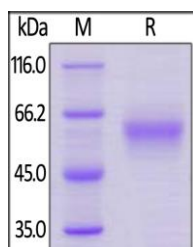


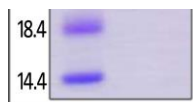
Human CellExp™ LAIR1 / CD305, Fc Tag, Mouse Recombinant

03/19

CATALOG NO:	P1408-10 10 µg P1408-50 50 µg
ALTERNATE NAMES:	LAIR1, CD305
MOL. WT.	This protein carries a mouse IgG2a Fc tag at the C-terminus. The protein has a calculated MW of 40.6 kDa. The protein migrates as 50-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
SOURCE:	HEK 293 cells
PURITY:	>95% SDS-PAGE
ENDOTOXIN:	Less than 0.1 EU per µg by the LAL method.
FORM:	Lyophilized protein
FORMULATION:	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, pH 7.5. Normally trehalose is added as protectant before lyophilization.
RECONSTITUTION:	Reconstitute in sterile deionized water to a desired concentration.
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -80°C and use within 3 months. Avoid repeated freezing and thawing cycles. -20°C
DESCRIPTION:	Leukocyte-associated immunoglobulin-like receptor-1 (LAIR-1) is constitutively expressed on the majority of human peripheral blood mononuclear leukocytes. LAIR-1 or CD305 is a transmembrane glycoprotein with a single immunoglobulin-like domain and a cytoplasmic tail containing two immune receptor tyrosine-based inhibitory motifs. LAIR-1 recruits SHP-1 and SHP-2 phosphatases upon activation, and cross-linking of the LAIR-1 antigen on natural killer (NK) cells results in strong inhibition of NK cell-mediated cytotoxicity. 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. Diseases associated with LAIR1 include Chronic Active Epstein-Barr Virus Infection and Palindromic Rheumatism.
AMINO ACID SEQUENCE:	AA Gln 22 - Tyr 141



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Mouse LAIR-1, Mouse IgG2a Fc Tag on SDS-PAGE under reducing (R) condition.

RELATED PRODUCTS:

Human CellExp™ LAIR1 / CD305, Fc Tag, Human Recombinant (P1239)

FOR RESEARCH USE ONLY! Not to be used on humans.

