LAIR1

Recombinant Human Leukocyte-associated Immunoglobulin-like Receptor 1

Catalog No.	CRL109A	**Quantity:**	5 µg
	CRL109B		20 µg
	CRL109C		1.0 mg

Alternate Names: Leukocyte-associated immunoglobulin-like receptor 1, LAIR-1, hLAIR1, CD305 antigen, LAIR1, CD305.

Description: LAIR1 is a glycoprotein (~32 kDa) expressed on the surface of the majority of human peripheral blood mononuclear leukocytes including T cells, B cells, NK cells, macrophages and dendritic cells. LAIR-1 functions as an inhibitory receptor in NK cells, T cells and B cells. Inhibitory receptors control the immune response to prevent lysis of cells recognized as self. Lair1 consists of a leader sequence, extracellular domain, transmembrane domain, cytoplasmic region.
LAIR1 is a member of both the immunoglobulin superfamily and the leukocyte-associated inhibitory receptor family. LAIR1 maps to a region of 19q13.4 labeled the leukocyte receptor cluster, which contains at least 29 genes encoding leukocyte-expressed receptors of the immunoglobulin superfamily.
LAIR1 Recombinant produced in E. coli is a single, non-glycosylated polypeptide chain containing amino acids 105 and having a MW = 11.5 kDa. The extracellular domain of LAIR-1 (22-125 aa) was over expressed in E. coli.

Physical Appearance: Sterile filtered colorless solution.

Gene ID: 3903

Source: *E. coli*

Molecular Mass: 11.5 kDa

Formulation: The protein (1 mg/ml) contains 20 mM Tris-HCl, (pH7.5) + 50 mM NaCl and 1 mM EDTA.

Purity: Greater than 95.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Purification: Purified by using conventional chromatography techniques.

Amino Acid Sequence: MQEEDLPRPS ISAEPGTVIP LGSHVTFVCR GPVGVQTFRL ERESRSTYND TEDVSQASPSESEARFRIDS VSEGNAGPYR CIYYKPPKWS EQSDYLELLV KETSG.

Storage & Stability: Store at 4°C if entire vial will be used within 2-4 weeks.
Store, frozen at -20°C for longer periods of time.
For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Avoid multiple freeze-thaw cycles.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

Cell Sciences®
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Website: www.cellsciences.com