

HUMAN LAIR1 PROTEIN, HFC TAG

Cat.#: 11909

Product Name: Human LAIR1 Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: CD305;LAIR-1

Target: LAIR1

UNIPROT ID: Q6GTX8

Description: Recombinant Human LAIR1 Protein with C-terminal human Fc tag

Background: The protein encoded by this gene is an inhibitory receptor found on peripheral mononuclear cells, including natural killer cells, T cells, and B cells. Inhibitory receptors regulate the immune response to prevent lysis of cells recognized as self. The gene is a member of both the immunoglobulin superfamily and the leukocyte-associated inhibitory receptor family. The gene maps to a region of 19q13.4 called the leukocyte receptor cluster, which contains at least 29 genes encoding leukocyte-expressed receptors of the immunoglobulin superfamily. The encoded protein has been identified as an anchor for tyrosine phosphatase SHP-1, and may induce cell death in myeloid leukemias. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 41.6 kDa after removal of the signal peptide. The apparent molecular mass of LAIR1-hFc is approximately 35–70 kDa due to glycosylation.

Molecular Characterization: LAIR1(Gln22–His163) hFc(Glu99–Ala330)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at –20°C to –80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at –80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.



Figure 1. Human LAIR1 Protein, hFc Tag on SDS-PAGE under reducing condition.