

**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.