

**Catalog No.: RP01034** **Recombinant**

Species	Gene ID	Swiss Prot
Human	3904	O6ISS4

C-His

## LAIR2:CD306

<b>Source</b>	<b>Purification</b>
HEK293 cells	≥ 90 % as determined by SDS-PAGE

Calculated MW	Observed MW
14.91 kDa	15-25 kDa

< 0.1 EU/μg of the protein by LAL method.

Lyophilized from a 0.22  $\mu\text{m}$  filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Leukocyte-associated immunoglobulin-like receptor 2 ( LAIR2 ), also known as CD36, is a 131 amino acid protein containing one Ig-like C2-type domain, making it a member of the Ig superfamily. When compared to LAIR-1, its transmembrane counterpart, it shares 83% aa identity across the signal sequence and extracellular domains, the two LAIR proteins are thought to have arisen from a common gene ancestor and appear to share similar adhesion profiles. LAIR2 is thought to be secreted and may help modulate mucosal tolerance. As a natural competitor for LAIR1, soluble LAIR2 prevents binding of human LAIR1 to collagens and LAIR1 cross-linking, thereby regulating its inhibitory potential. LAIR2 is thought to be secreted and may help modulate mucosal tolerance.

Recombinant Human LAIR-2/CD306 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln22-Pro152) of human LAIR2 (Accession #NP\_002279) fused with a 6×His tag at the C-terminus.

Measured by the ability of the immobilized protein to support the adhesion of HT-29 human colon adenocarcinoma cells. When  $5 \times 10^4$  cells/well are added to rhLAIR-2 coated plates (50  $\mu\text{g/mL}$  with 100  $\mu\text{L/well}$ ), approximately 50%-60% will adhere after 10 minutes at 37°C.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

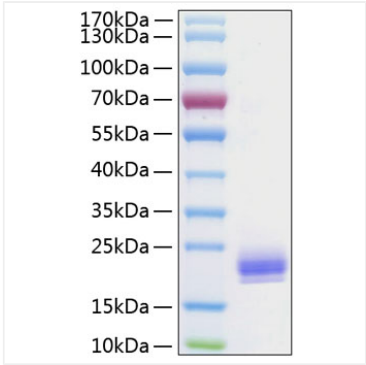
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

For your safety and health, please wear a lab coat and disposable gloves for handling.

## Validation Data

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Recombinant Human LAIR-2/CD306 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.