

For Research Use Only

Recombinant Human LAIR2 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg4247

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Human LAIR2 protein Gln22-Pro152 (Accession# Q6ISS4-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
3904

Accession:
Q6ISS4-1

Predicted Molecular Mass:
40.3 kDa

SDS-PAGE:
42-50 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

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

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

LAIR2, or leukocyte-associated immunoglobulin-like receptor 2, is a protein that belongs to the immunoglobulin superfamily. It is highly expressed in the placenta, specifically in the extravillous trophoblasts (EVTs) at the leading edge of the anchoring cell columns invading the maternal decidua. LAIR2 expression has also been noted to be down-regulated in the first trimester of pregnancies destined for preeclampsia, suggesting a potential role in the etiology of this condition. LAIR2 has been implicated in cancer immunotherapy. A study suggests that LAIR-2 can act as a decoy receptor by binding collagen with higher affinity than LAIR-1, potentially releasing LAIR-1-mediated immune suppression. This could be a novel strategy for cancer immunotherapy, particularly for immune-excluded tumors.

References

1. Founds SA. et al. (2013) Placenta. 34(3):248-55.
2. Ramos MIP. et al. (2021) Elife. 10:e62927.

Synonyms

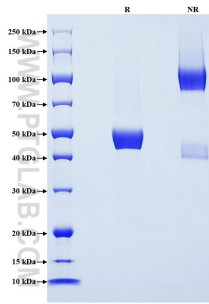
CD306, LAIR 2

For technical support and original validation data for this product please contact

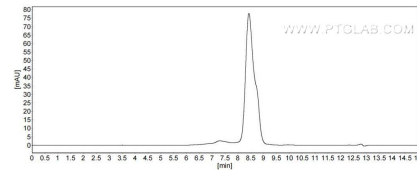
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Selected Validation Data



Purity of Recombinant Human LAIR2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Human LAIR2 was greater than 90% as determined by SEC-HPLC.