

Human LAIR2 / CD306 Protein

Catalog Number: 10868-HNAH



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

CD306; LAIR2; MGC71634; Xxbac-BCX535A19.6

Protein Construction:

A DNA sequence encoding the human LAIR2 (NP_002279.2) (Met 1-Pro 152) was expressed and purified.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: > 93 % as determined by SDS-PAGE

Bio Activity:

Measured by the ability of the immobilized protein to support the adhesion of HT-29 human colon adenocarcinoma cells . When 5 x 10⁴ cells/well are added to recombinant human LAIR2 coated plates (50 µg/ml with 100 µl/well), >30% will adhere after 30 minutes at 37°C. Optimal concentration depends on cell type as well as the application or research objectives.

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Gln 22

Molecular Mass:

The secreted recombinant human LAIR2 comprises 131 amino acids with a predicted molecular mass of 14.1 kDa. As a result of glycosylation, the apparent molecular mass of rh LAIR2 is approximately 22 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 50mM Tris, 0.7M NaCl, pH 8.0

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

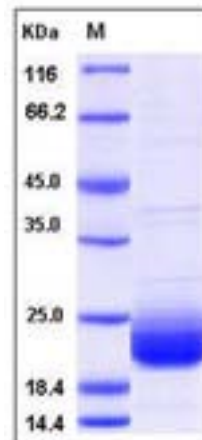
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Leukocyte-associated immunoglobulin-like receptor 2 (LAIR2), also known as CD306, is a 131 amino acid protein containing one Ig-like C2-type domain. It is expressed as a soluble receptor exhibiting high affinity for various collagen molecules to which it binds in a hydroxyproline-dependent manner. LAIR2 is a member of the immunoglobulin superfamily and was identified by its similarity to LAIR1, an inhibitory receptor present on mononuclear leukocytes. 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. Accordingly, LAIR2 is suggested to perform an immunoregulatory function.

References

1.Meyaard, L. et al.,1997, Immunity.7:283-290. 2.Meyaard, L. et al.,1999, J. Immunol. 162:5800-5804. 3.Meyaard, L. et al., 2001, J. Exp. Med. 194 (1): 107-112.

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