

# Recombinant Human LAIR2/CD306 Protein

Catalog Number:PKSH031382



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

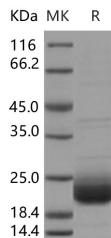
## Description

|                                    |   |
|------------------------------------|---|
| <b>Synonyms</b>                    | Leukocyte-Associated Immunoglobulin-Like Receptor 2;LAIR-2;CD306;LAIR2  |
| <b>Species</b>                     | Human   |
| <b>Expression Host</b>             | HEK293 Cells  |
| <b>Sequence</b>                    | Met 1-Pro 152   |
| <b>Accession</b>                   | NP_002279.2   |
| <b>Calculated Molecular Weight</b> | 14.1 kDa  |
| <b>Observed molecular weight</b>   | 22 kDa  |
| <b>Tag</b>                         | None  |
| <b>Bioactivity</b>                 | 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 recombinant human LAIR2 coated plates (50 $\mu$ g/ml with 100 $\mu$ l/well), > 30% will adhere after 30 minutes at 37°C. Optimal concentration depends on cell type as well as the application or research objectives. |

## Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 93 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | < 1.0 EU per $\mu$ g of the protein as determined by the LAL method.  |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.       |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.   |
| <b>Formulation</b>    | Lyophilized from sterile 50mM Tris, 0.7M NaCl, pH 8.0<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.  |

## Data



> 93 % as determined by reducing SDS-PAGE.

## Background

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

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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.

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