



Recombinant Protein Technical Manual

Recombinant Human LAIR2/CD306 Protein, Low Endotoxin
RPES2641

Product Data:

Product SKU: RPES2641

Size: 5µg

Species: Human

Expression host: HEK293 Cells

Uniprot: NP_002279.2

Protein Information:

Molecular Mass: 14.1 kDa

AP Molecular Mass: 20 kDa

Tag:

Bio-activity:

Purity: > 94 % as determined by reducing SDS-PAGE.

Endotoxin: 5 EU per 1 mg protein as determined by the LAL method. Frozen shipping is required

Storage: 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.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: CD306;LAIR2;MGC71634;XXbac-BCX535A19.6

Immunogen Information:

Sequence: Met 1-Pro 152

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 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.