

Recombinant Human NKG2D Ligand 1/NKG2DL/ULBP1 Protein(C-Fc)

Cat.NO.: TP04819

3th Edition

Synonyms:NKG2D ligand 1;NKG2DL1;ALCAN-beta;Retinoic acid early transcript 1I;UL16-binding protein 1;ULBP1

Description:NKG2D ligand 1, also called ULBP1, is a member of UL16-binding protein (ULBP) family which has also been termed the retinoic acid early transcript 1 (RAET1) family. Unlike the classical MHC class I molecules and the MIC molecules possess ?1, ?2 and ?3 domains, ULBP/RAET1 family members lack ?3 domain. ULBP1 is recognized by the activating receptor NKG2D on the surface of cytotoxic natural killer (NK) and T cells, and then promotes the lysis of cells expressing ULBP1 which is important for the immune surveillance. ULBP1 and several other family members, ULBP2 and ULBP5, own the ability to bind the human cytomegalovirus (CMV) UL16 glycoprotein. The human CMV glycoprotein UL16 binds to intracellular ULBP1 and so inhibits its expression at the cell surface, which reduces the susceptibility of the virus-infected cell to cytotoxic destruction by NK cells. The expression of ULBP1 has been found on some tumor cells and is implicated in tumor surveillance.

Form:PBS

Molecular Weight:49.4 kDa

Sequences:Gly26-Pro215

Purity:> 95% by HPLC

Concentration:

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.