

ULBP2, 26-216aa, Human, His tag, E.coli

Cat.NO.: TP04426

3th Edition

Synonyms:NKG2D ligand 2, N2DL2, RAET1H

Description:ULBP2, also known as NKG2D ligand 2, belongs to the MHC class I family. This protein is ligand for the NKG2D receptor, together with at least ULBP1 and ULBP3. ULBPs activate multiple signaling pathways in primary NK cells, resulting in the production of cytokines and chemokines. Binding of ULBPs ligands to NKG2D induces calcium mobilization and activation of the JAK2, STAT5, ERK and PI3K kinase/Akt signal transduction pathway. In CMV infected cells, interacts with soluble CMV glycoprotein UL16. The interaction with UL16 blocked the interaction with the NKG2D receptor, providing a mechanism by which CMV infected cells might escape the immune system. UL16 also causes ULBP2 to be retained in the ER and cis-Golgi apparatus so that it does not reach the cell surface. Recombinant human ULBP2 protein, fused to His-tag at N-terminus, was expressed in E.coli.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 30% glycerol, 2M urea, 0.2M NaCl, 2mM DTT

Molecular Weight:24.3 kDa (216aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSHMGRADPHSLCYDITVIPKFRPGPRWCAVQQQVDEKTFLHYDCGNKTVTPV
SPLGKKLNVTTAWKAQNPVLREVVDILTEQLRDIQLENYTPKEPLTLQARMSCEQKAEGHSSGSWQFSFDGQIFLL
FDSEKRMWTTVHPGARKMKEKWENDKVVAMSFHYFSMGDCIGWLEDFLMGMDSTLEPSAGAPLAMS

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

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.