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ULBP2 Human

Catalog #:PRPS-1141

For research use only.

Description:ULBP2 Human Recombinant produced in E. coli is a single polypeptide chain containing 216 amino acids (26-216) and having a molecular mass of 24.3 kDa.ULBP2 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Synonyms:UL16 binding protein 2, retinoic acid early transcript 1 H, NKG2D ligand 2, Retinoic acid early transcript 1H, ALCAN-alpha, N2DL-2, RAET1H.

Source:E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MGSHMGRADP HSLCYDITVI PKFRPGPRWC AVQGQVDEKT FLHYDCGNKT VTPVSPLGKK LNVTTAWKAQ NPVLREVVDI LTEQLRDIQL ENYTPKEPLT LQARMSCEQK AEGHSSGSWQ FSFDGQIFLL FDSEKRMWTT VHPGARKMKE KWENDKVVAM SFHYFSMGDC IGWLEDFLMG MDSTLEPSAG APLAMS

Purity: Greater than 85% as determined by SDS-PAGE.

Formulation:
The ULBP2 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2M urea, 0.2M NaCl, 2mM DTT and 30% glycerol.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
ULBP2 is a member of the MHC class I family. ULBP2 is ligand for the NKG2D receptor, composed with at least ULBP1 and ULBP3. ULBPs promote multiple signaling pathways in primary NK cells, triggering the production of cytokines and chemokines. Binding of ULBPs ligands to NKG2D encourages calcium mobilization and activation of the JAK2, STAT5, ERK and PI3K kinase/Akt signal transduction pathway. In CMV infected cells, ULBP2 cooperates with soluble CMV glycoprotein UL16. This cooperation is blocked with the NKG2D receptor, providing a mechanism in which CMV infected cells can escape the immune system. Additionally, UL16 causes ULBP2 to be held in the ER and cis-Golgi apparatus so that it does not reach the cell surface.

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