

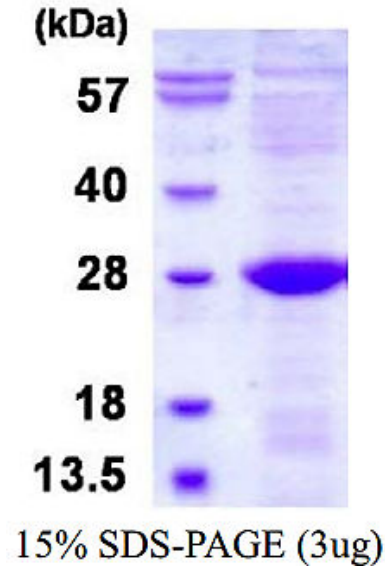
ULBP2, human recombinant

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|-------------------------|---|--------|
| CATALOG #: | 7334-100 | 100 µg |
| ALTERNATE NAMES: | NKG2D ligand 2, N2DL2, RAET1H | |
| SOURCE: | E. coli | |
| PURITY: | > 85% by SDS-PAGE | |
| MOL. WEIGHT: | 24.3 kDa (216 aa, 26-216 aa + His Tag), confirmed by MALDI-TOF. | |
| ENDOTOXIN LEVEL: | < 1.0 EU per 1 µg of protein | |
| FORM: | Liquid | |
| FORMULATION: | 1 mg/ml in 20 mM Tris-HCl buffer (pH 8.0) containing 0.2 M NaCl, 30% glycerol, 2 M Urea and 2 mM DTT. | |

STORAGE CONDITIONS: 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.

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.

AMINO ACID SEQUENCE: MGSSHHHHHH SSGLVPRGSH MGSHMGRADP
 HSLCYDITVI PKFRPGPRWC AVQQQVDEKT FLHYDCGNKT VTPVSPLGKK
 LNVTTAWKAQ NPVLREVVDI LTEQLRDIQL ENYTPKEPLT LQARMSCEQK
 AEGHSSGSWQ FSFDGQIFLL FDSEKRMWTT VHPGARKMKE KWENDKVVAM
 SFHYFSMGDC IGWLEDFLMG MDSTLEPSAG APLAMS



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RELATED PRODUCTS:

- ULBP1, human recombinant (Cat. No. 7333-100)

FOR RESEARCH USE ONLY! Not to be used in humans.

