



# Recombinant Protein Technical Manual

## Recombinant Human ULBP2/N2DL-2 Protein (His Tag)

RPES3475

### Product Data:

**Product SKU:** RPES3475

**Size:** 50µg

**Species:** Human

**Expression host:** HEK293 Cells

**Uniprot:** Q9BZM5

### Protein Information:

**Molecular Mass:** 23.2 kDa

**AP Molecular Mass:** 33 kDa

**Tag:** C-His

**Bio-activity:**

**Purity:** > 97 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**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:** NKG2D Ligand 2; N2DL-2; NKG2DL2; ALCAN-Alpha; Retinoic Acid Early Transcript 1H; UL16-Binding Protein 2; ULBP2; N2DL2; RAET1H

## Immunogen Information:

**Sequence:** Met 1-Ser 217

## Background:

NKG2D ligand 2, also known as N2DL-2, NKG2DL2, ALCAN-alpha, Retinoic acid early transcript 1H, UL16-binding protein 2, ULBP2 and N2DL2, is cell membrane protein which belongs to the MHC class I family. ULBP2 / N2DL-2 is expressed in various types of cancer cell lines and in the fetus, but not in normal tissues. ULBP2 / N2DL-2 is a 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.