



# Recombinant Protein Technical Manual

## Recombinant Mouse NCR1 Protein (His Tag)

RPES2357

### Product Data:

**Product SKU:** RPES2357

**Size:** 10µg

**Species:** Mouse

**Expression host:** Human Cells

**Uniprot:** Q8C567

### Protein Information:

**Molecular Mass:** 53.5 kDa

**AP Molecular Mass:** 76 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by 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 a 0.2 µm filtered solution of PBS, pH 7.4 .

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Activating receptor1; mAR; Lymphocyte antigen94; Naturalkiller cell p46-related protein; NK-p46; NKp46; mNKp46

## Immunogen Information:

**Sequence:** Glu22-Asn255

## Background:

Natural cytotoxicity triggering receptor 1(NKp46/NCR1) is a single-pass type I membrane protein. It consists of two extracellular Ig-like domains followed by a short stalk region, a transmembrane domain containing a positively charged amino acid residue, and a short cytoplasmic tail. NKp46 is predominantly expressed in the embryo. It has a positive charge in its transmembrane domain that permits association with the ITAM-bearing signal adapter proteins, CD3 zeta and Fc epsilon RI gamma. These receptors are expressed almost exclusively by NK cells and play a major role in triggering some of the key lytic activities of NK cells. Studies with neutralizing antibodies indicate that the three NCR are primarily responsible for triggering the NK-mediated lysis of many human tumor cell lines.