

# Recombinant Human NCR2 Protein (Met1-Pro190), His-tagged, Biotinylated

**Cat. No.** NCR2-1134H    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

Recombinant Human NCR2 Protein (NP\_004819.2) (Met1-Pro190) was produced by HEK293 Cells expression system. This protein was fused with a polyhistidine tag at the C-terminus. The purified protein was biotinylated in vitro.

### Species

Human

### Source

HEK293

### ProteinLength

Met1-Pro190

### Description

Natural cytotoxicity triggering receptor 2 (NCR2), also known as Natural killer cell p44-related protein (NKp44), or CD336, is a member of the natural cytotoxicity receptor (NCR) family, which composed of one Ig-like extracellular domain, a transmembrane segment, and a cytoplasmic domain. It is a novel transmembrane glycoprotein belonging to the Immunoglobulin superfamily characterized by a single extracellular V-type domain. The cytoplasmic domain of NKp44 also contains a sequence that matches the immunoreceptor tyrosine-based inhibitory motif (ITIM) consensus. This Cytotoxicity-activating receptor that may contribute to the increased efficiency of activated natural killer (NK) cells to mediate tumor cell lysis. NKp44 is selectively expressed by IL-2-activated NK cells and may contribute to the increased efficiency of activated NK cells to mediate tumor cell lysis. Tumor cell recognition of the mutated NKp44 proteins was significantly reduced and correlated with their lower recognition of heparin.

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|                             |                                                                                                                                                                                                                                                              |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Predicted N Terminal</b> | Gln 22                                                                                                                                                                                                                                                       |
| <b>Form</b>                 | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                               |
| <b>Molecular Mass</b>       | The recombinant human NCR2 consists of 180 amino acids and predicts a molecular mass of 20 kDa.                                                                                                                                                              |
| <b>Endotoxin</b>            | < 1.0 EU per µg protein as determined by the LAL method.                                                                                                                                                                                                     |
| <b>Purity</b>               | > 95 % as determined by SDS-PAGE.                                                                                                                                                                                                                            |
| <b>Stability</b>            | Samples are stable for up to twelve months from date of receipt at -70 centigrade.                                                                                                                                                                           |
| <b>Storage</b>              | Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                                                                               |
| <b>Reconstitution</b>       | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                                |
| <b>Shipping</b>             | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |
| <b>Conjugation</b>          | Biotin                                                                                                                                                                                                                                                       |

## GENE INFORMATION

**Gene Name** [NCR2 natural cytotoxicity triggering receptor 2 \[ Homo sapiens \]](#)

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|                        |                                                       |
|------------------------|-------------------------------------------------------|
| <b>Official Symbol</b> | <a href="#">NCR2</a>                                  |
| <b>Synonyms</b>        | NCR2; CD336; NK p44; LY95; NKP44; NK-p44; dJ149M18.1; |
| <b>Gene ID</b>         | <a href="#">9436</a>                                  |
| <b>mRNA Refseq</b>     | <a href="#">NM_001199509</a>                          |
| <b>Protein Refseq</b>  | <a href="#">NP_001186438</a>                          |
| <b>MIM</b>             | <a href="#">604531</a>                                |
| <b>UniProt ID</b>      | <a href="#">O95944</a>                                |

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