

Active Recombinant Cynomolgus NCR3 Protein, His-tagged

Cat. No. NCR3-498C **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Cynomolgus NCR3 (XP_005553604.1) (Met1-Gly135) was expressed with a polyhistidine tag at the C-terminus. Cynomolgus and Rhesus NCR3 sequences are identical.

Species Cynomolgus

Source HEK293

ProteinLength Met1-Gly135

Description

Natural Cytotoxicity Triggering Receptor 3, NCR3, also known as NKp30, or CD337, is a natural cytotoxicity receptor, expressed on subsets of human peripheral blood NK cells, involved in NK cell killing of tumor cells and immature dendritic cells. The cellular ligand for NKp30 has remained elusive, but the membrane-associated heparan sulfate (HS) proteoglycans are involved in the recognition of cellular targets by NKp30 was recently reported. NKp30 is a member of the immunoglobulin superfamily and one of three existing natural cytotoxicity-triggering receptors. NKp30 is a glycosylated protein and is thought to be selectively expressed in resting and activated natural killer cells. NKp30 is a stimulatory receptor on human NK cells implicated in tumor immunity, and is capable of promoting or terminating dendritic cell maturation. NCR3 may play a role in inflammatory and infectious diseases.

Predicted N Terminal Leu 19

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Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized cynomolgus NCR3-His at 10µg/mL (100µL/well) can bind cynomolgus NCR3LG1-Fc, the EC50 of cynomolgus NCR3LG1-Fc is 20-150ng/mL.
Molecular Mass	The recombinant cynomolgus NCR3 consists of 128 amino acids and predicts a molecular mass of 14.3 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 90% as determined by SDS-PAGE.
Storage	Samples are stable for up to twelve months from date of receipt at -70 centigrade. 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.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Official Symbol	NCR3
Synonyms	NCR3;NKp30 Protein

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