

Rev04
Update: Aug,08,2025

DATASHEET

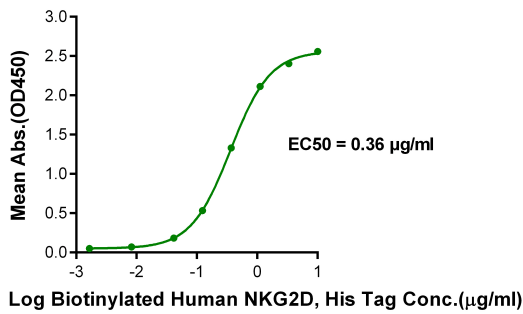
NKG2D/CD314[Biotin], His & Avi, Human

Cat. No.: Z04099

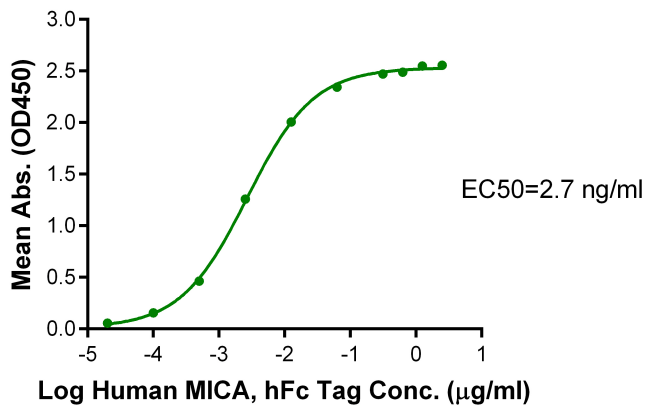
Product Introduction

Species	Human
Protein Construction	His Avi NKG2D/CD314 (Phe78-Val216) Accession # P26718 N-termC-term
Conjugate	Biotin
Purity	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized NKG2D/CD314[Biotin], His & Avi, Human at 1µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml) can bind Human MICA, hFc Tag. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	19.0 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 36-40 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

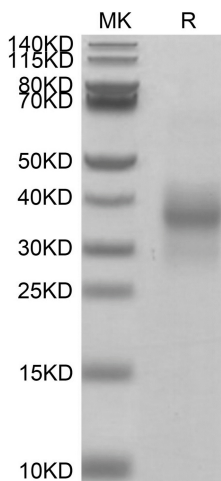
Examples



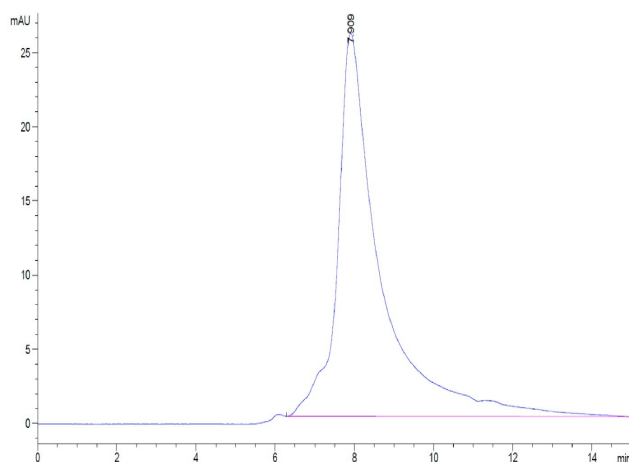
Immobilized Anti-NKG2D Antibody at 2μg/ml(100μl/well) on the plate. Dose response curve for NKG2D/CD314[Biotin], His & Avi, Human, His Tag with the EC50 of 0.36ng/ml determined by ELISA.



Immobilized NKG2D/CD314[Biotin], His & Avi, Human, His Tag at 1 μg/ml (100 μl/well) on the streptavidin precoated plate(5 μg/ml). Dose response curve for Human MICA, hFc Tag with the EC50 of 2.7 ng/ml determined by ELISA.



NKG2D/CD314[Biotin], His & Avi, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



The purity of NKG2D/CD314[Biotin], His & Avi, Human is greater than 95% as determined by SEC-HPLC.

Background

Target Background : NKG2D is a type II transmembrane glycoprotein having an extracellular lectin-like domain. This domain lacks the recognizable calcium-binding sites found in true C-type lectins and binds protein rather than carbohydrate ligands. Human NKG2D is expressed on CD8 alpha beta T cells, gamma δ T cells, NK cells and NKT cells.

Synonyms : CD314; D12S2489E; KLR; NKG2-D; NKG2D

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

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