

NKG2A/CD159a Protein, Human, Recombinant (His & Avi)

General Information

Synonyms:	KLRC1;NKG2A;NKG2-A;KLRD1;CD94;CD159A;KP43
Protein Construction:	Arg100-Leu233
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P26715-1
Molecular Weight:	18.3 kDa (predicted). Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	<ol style="list-style-type: none">1. Immobilized Human NKG2A, His Tag at 5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-NKG2A Antibody, hFc Tag with the EC50 of 0.51µg/ml determined by ELISA (QC Test).2. Anti-NKG2A antibody captured on Protein A chip, can bind Human NKG2A, His Tag with an affinity constant of 0.23µM as determined in a SPR assay.
Purity:	> 90% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

NKG2, also known as NKG2A(CD159A), is a member of the killer cell lectin-like receptor family. NKG2A marks a unique immune effector subset preferentially co-expressing the tissue-resident CD103 molecule, but not immune

checkpoint inhibitors. It is expressed only in NK-cells, but not in T-cells or B-cells.

Reference

Vivier E. Anti-NKG2A mAb is a checkpoint inhibitor that promotes anti-tumor immunity by unleashing both T and NK cells [J]. Cell. Volume 175, Issue 7, 13 December 2018, Pages 1731-1743.e13

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