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Anti-NKG2D / CD314 Reference Antibody (tesnatilimab)

Recombinant Antibody
Catalog # APR10241

Specification

Anti-NKG2D / CD314 Reference Antibody (tesnatilimab) - Product Information

Application	**FC, Kinetics, Animal Model**
Primary Accession	P26718
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**IgG4**
Calculated MW	**143.9 KDa**

Anti-NKG2D / CD314 Reference Antibody (tesnatilimab) - Additional Information

Target/Specificity
NKG2D / CD314

Endotoxin
< 0.001EU/ μg,determined by LAL method.

Conjugation
Unconjugated

Expression system
CHO Cell

Format
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

Anti-NKG2D / CD314 Reference Antibody (tesnatilimab) - Protein Information

Name KLRK1

Synonyms D12S2489E, NKG2D

Function
Functions as an activating and costimulatory receptor involved in immunosurveillance upon binding to various cellular stress- inducible ligands displayed at the surface of autologous tumor cells and virus-infected cells. Provides both stimulatory and costimulatory innate immune responses on activated killer (NK) cells, leading to cytotoxic activity. Acts as a costimulatory receptor for T-cell receptor (TCR) in CD8(+) T-cell-mediated adaptive immune responses by amplifying T-cell activation. Stimulates perforin-mediated elimination of ligand-expressing tumor cells. Signaling involves calcium influx, culminating in the expression of TNF-alpha. Participates in NK cell- mediated bone marrow graft rejection. May play a regulatory role in differentiation and survival of NK cells. Binds to ligands belonging to various subfamilies of MHC class I-related glycoproteins including MICA, MICB, RAET1E, RAET1G, RAET1L/ULBP6, ULBP1, ULBP2, ULBP3

(ULBP2>ULBP1>ULBP3) and ULBP4.

Cellular Location
Cell membrane; Single-pass type II membrane protein Note=Colocalized with HCST on the cell surface

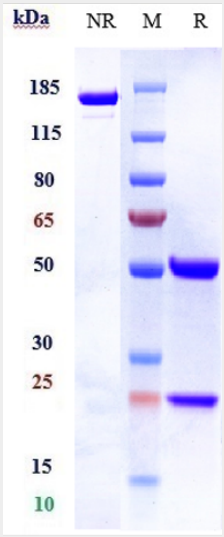
Tissue Location
Expressed in natural killer (NK) cells, CD8(+) alpha-beta and gamma-delta T-cells. Expressed on essentially all CD56+CD3- NK cells from freshly isolated PBMC. Expressed in interferon- producing killer dendritic cells (IKDCs).

Anti-NKG2D / CD314 Reference Antibody (tesnatilimab) - Protocols

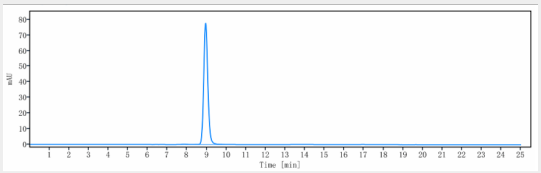
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-NKG2D / CD314 Reference Antibody (tesnatilimab) - Images



Anti-NKG2D / CD314 Reference Antibody (tesnatilimab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-NKG2D / CD314 Reference Antibody (tesnatilimab)is more than 100% ,determined by SEC-HPLC.

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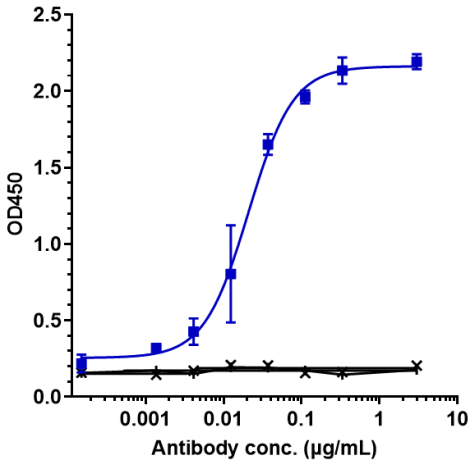

Immobilized human NKG2D His at 2 µg/mL can bind Anti-NKG2D / CD314 Reference Antibody (tesnatilimab) EC50=0.0209 µg/mL