

Hamster monoclonal anti mouse CD314 (NKG2D)

(Azide-free & Low endotoxin)

ORDERING INFORMATION

Catalog Number:	gAP-0033
Size:	1.00 mg
Storage:	< -20° C
Immunogen:	Soluble mouse NKG2D
Ig Type:	Armenian Hamster IgG2
Clone	AP-MAB0840
Endotoxin Level	< 0.002EU/μg IgG*
Applications:	FC and Blocking

Description: NKG2D is a lectin-like type II transmembrane protein also known as CD314. It is expressed on NK cells, a subset of CD8⁺ T cells, γ/δ T cells and NK1.1⁺ T cells, as well as in vitro induced LAK cells. NKG2D serves as a stimulatory immunoreceptor to activate NK cells via the non-covalently associated DAP10 or DAP12 adaptor. Several molecules have been identified as the ligands for NKG2D, including minor histocompatibility molecule, H60, UL16-binding protein-like transcript 1 (Mult1, and a family of retinoic acid early transcript 1 (Rae1) in mice, MHC class-I chain-related protein A (MICA), MICB, and UL16-binding proteins (ULBPs) in humans. present in both mice and humans. NKG2D ligands trigger cytokine (IFN-γ, GM-CSF, TNF-α, MIP1β and others) and granzyme release from NK cells.

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a Hamster immunized with **Soluble mouse NKG2D**).

Formulation: The IgG fraction of **culture supernatant** was purified by Protein A/G affinity chromatography and lyophilized from a 0.2 μm filtered solution in phosphate-buffered saline (PBS, **Azide Free**).

Reconstitution: Reconstitute the antibody with sterile PBS and the reconstituted antibody can be aliquoted and stored frozen at < -20 for at least for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.** Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C.

***Endotoxin Level:** Extremely low level of LPS (< 0.002EU/μg IgG)

Application(s):

1. **FC**
2. **Blocking NK cell killing of targets expressing NKG2D ligands**
3. **Inducing redirected lysis**

*** The antibody is produced by in vitro culture and for Research Use Only**