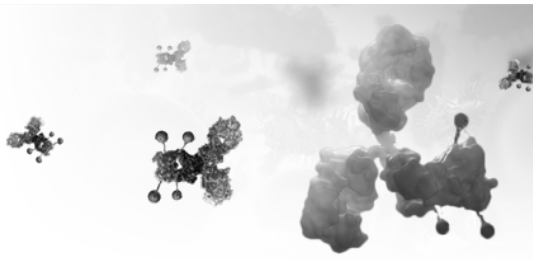

Armenian Hamster Anti-Mouse NKG2D Monoclonal antibody, clone HMG2D (CABT-L4409)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	The HMG2D monoclonal antibody reacts with mouse NKG2D, a type II transmembrane lectin-like glycoprotein also known as CD314. NKG2D is expressed on NK cells, NKT cells, CD8 T cells, γ/δ T cells, and macrophages. NKG2D has been implicated in anti-tumor surveillance and the immune response against viral infection. The HMG2D antibody has been shown to block NKG2D in vivo.
Target	Mouse NKG2D
Immunogen	Mouse NKG2D-Fc fusion protein
Isotype	IgG
Source/Host	Armenian Hamster
Species Reactivity	Mouse
Clone	HMG2D
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo NKG2D blockade
Molecular Weight	150 kDa
Format	0.2 μM filtered liquid. Purified from tissue culture supernatant in an animal free facility

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Concentration	Lot specific
Size	5 mg
Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	Receptor for MICA, MICB, ULBP1, ULBP2, ULBP3 (ULBP2>ULBP1>ULBP3) and ULBP4. Plays a role as a receptor for the recognition of MHC class I HLA-E molecules by NK cells and some cytotoxic T-cells. Involved in the immune surveillance exerted by T- and B-lymphocytes.
Keywords	CD314;CD314 antigen;D12S2489E;Killer cell lectin like receptor subfamily K member 1;Killer cell lectin-like receptor subfamily K member 1;KLR;Klrk1;NK cell receptor D;NK lectin-like receptor;NKG2 D activating NK receptor

GENE INFORMATION

Official Symbol	NKG2D
Synonyms	CD314; CD314 antigen; D12S2489E; Killer cell lectin like receptor subfamily K member 1; Killer cell lectin-like receptor subfamily K member 1; KLR; Klrk1; NK cell receptor D; NK lectin-like receptor; NKG2 D activating NK receptor
References	Crosby, E. J., et al. (2015). "Lymphocytic Choriomeningitis Virus Expands a Population of NKG2D+CD8+ T Cells That Exacerbates Disease in Mice Coinfected with Leishmania major." J Immunol 195(7): 3301-3310. PubMed;

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