

NKG2D recombinant antibody

Anti-NKG2D [CX-5], Rat IgG1, lambda

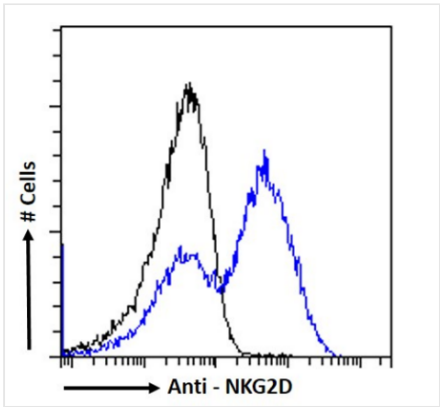
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72535	Rat	Mouse	Neutralization Assay, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

NKG2D; Monoclonal Recombinant Antibody; Anti-NKG2D [CX-5]; Rat IgG1; lambda; CD314; KLRK1; NKG2-D type II integral membrane protein; Killer cell lectin-like receptor subfamily K member 1; NK cell receptor D; NKG2-D-activating NK receptor; CX5; NKG2D recombinant antibody

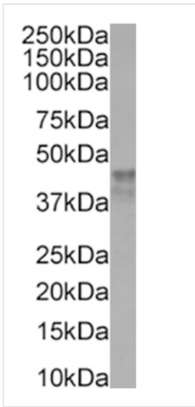
PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rat IgG1 lambda
Clone Number	CX-5
Specificity	This antibody recognizes mouse NKG2D, a lectin-like molecule expressed on both human and mouse NK cells. Mouse NKG2D binds to retinoic acid-inducible RAE-1 alpha, beta, gamma, delta, epsilon and the minor histocompatibility molecule H60 and has the ability to costimulate multiple NK activation receptors, through the DAP12/DAP10 adaptor molecules. NKG2D is expressed by all spleen and liver NK cells, NK1.1 thymocytes, in vitro activated LAK cells, and a subset of splenic NKT cells.
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for NKG2D recombinant antibody	NTRL (Neutralization Assay), Blocking, FCM/FACS (Flow Cytometry)
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



FCM/FACS (Flow Cytometry)
Flow cytometry using the Anti-NKG2D antibody CX-5 (AAA72535). Paraformaldehyde fixed mouse splenocytes were stained with anti-unknown specificity antibody or the rabbit IgG version of CX-5 (AAA72535, blue line) at a dilution of 1:100 for 1 h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG Alexa Fluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

IF (Immunofluorescence)
Immunofluorescence staining of RAW264.7 cells. Immunofluorescence analysis of paraformaldehyde fixed RAW264.7 cells stained with anti-NKG2D antibody CX-5 (AAA72535, blue line) at a dilution of 1:100 for 1 h followed by DAPI staining. Images shown are merged images of right, top-bottom AAA72535, DAPI, merged.



WB (Western Blot)
Western blot using Anti-NKG2D antibody CX-5 (AAA72535). Mouse lymph node tissue lysate (35 µg protein in RIPA buffer) were resolved on a 4-20% SDS-PAGE gel and blots were probed with the chimeric rabbit version of CX-5 (AAA72535, blue line) at a dilution of 1:100 for 1 h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG Alexa Fluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

FCM/FACS (Flow Cytometry)
Flow cytometry using the Anti-NKG2D antibody CX-5 (AAA72535, blue line) at a dilution of 1:100 for 1 h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG Alexa Fluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

ADDITIONAL INFORMATION

Related Product Information for NKG2D recombinant antibody	The original rat IgG1 version of this antibody was raised by immunizing rats against mouse KLRK1.
References	Ogasawara et al. Impairment of NK cell function by NKG2D modulation in NOD mice Immunity. 2003 Jan;18(1):41-51. doi: 10.1016/s1074-7613(02)00505-8. N/A12530974 Note on publication: Describes the characterization of this antibody.

NCBI AND UNIPROT INFORMATION

NCBI GI #	134023658
NCBI GeneID	27007
NCBI Accession #	NP_001076791.1
NCBI GenBank Nucleotide #	NM_001083322.1
UniProt Accession #	O54709
Molecular Weight	26,710 Da

NCBI Official Full Name	NKG2-D type II integral membrane protein isoform b
NCBI Official Synonym Full Names	killer cell lectin-like receptor subfamily K, member 1
NCBI Official Symbol	Klrk1
NCBI Official Synonym Symbols	Nkg2d; NKG2-D; D6H12S2489E
NCBI Protein Information	NKG2-D type II integral membrane protein; NK cell receptor D; natural killer cell group 2D; NKG2-D-activating NK receptor
UniProt Protein Name	NKG2-D type II integral membrane protein
UniProt Gene Name	Klrk1
UniProt Synonym Gene Names	Nkg2d
UniProt Entry Name	NKG2D_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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 Online datasheet: <https://www.aaabiotech.com/monoclonal/nkg2d-recombinant-antibody-clone-cx-5-neutralization-assay-flow-cytometry-elisa/72535>