

Anti-NKG2D [CX-5] Bulk Size bAb0505-BT

This antibody is a knob-into-hole bispecific based on murine IgG2a with an Fc Silent™ mutation, featuring one arm with an anti-mouse CD3e scFv based on the clone 145-2C11.

This is a bispecific, knob-into-hole heterodimerized antibody, with one arm directed against mouse NKG2D (Fab) and one arm directed against mouse CD3e (scFv).

Isotype and Format: Mouse IgG2a mCD3e KIH bispecific, [Fc Silent™](#), Lambda

Clone Number: CX-5

Alternative Name(s) of Target: 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

UniProt Accession Number of Target Protein: O54709

Published Application(s): FC, blocking, neutralizing

Published Species Reactivity: Mouse

Immunogen: The original rat IgG1 version of this antibody was raised by immunizing rats against mouse KLRK1.

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.

Application Notes: It has been shown that CX5 is a non-depleting antibody, which blocks binding of NKG2D to its ligands and mediates internalization of the receptor. This antibody has been widely used to block NKG2D (Wang et al., 2018; pmid: 29447423; Yang et al., 2017; pmid: 28455530) as well as to detect NKG2D-positive cells via flow cytometry (Hosomi et al., 2017; pmid: 28747426).

Antibody First Published in: 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. [PMID:12530974](#)

Note on publication: Describes the characterization of this antibody.

Product Form

Size: 500 µg Purified antibody in bulk size.

Purification:

Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.