

TECHNICAL DATA SHEET

Purified Anti-Mouse NKG2D (CD314) (CX5)

Catalog Number: 70-5882

PRODUCT INFORMATION

Contents: Purified Anti-Mouse NKG2D (CD314) (CX5)

Isotype: Rat IgG1, kappa

Concentration: 0.5 mg/mL

Clone: CX5

Reactivity: Mouse

Use By: 12 months from date of receipt

Storage Conditions: 2-8°C

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% NaN₃, pH7.2

DESCRIPTION

The CX5 antibody is specific for mouse NKG2D (CD314, KLRK1), a lectin-like type II transmembrane receptor protein. NKG2D functions as an activating receptor on NK cells and a co-stimulatory receptor on cytotoxic T cells, in both cases associating with the DAP10 adaptor protein. It is not expressed on resting T cells or unstimulated macrophages. NKG2D binds to its ligands, often expressed on atypical cells, including MULT1, H60 and five RAE1 variants. The CX5 antibody is reported to block binding of NKG2D to its ligands. Please choose the appropriate format for each application.

PREPARATION & STORAGE

This monoclonal antibody preparation was purified from tissue culture supernatant via affinity chromatography. For In Vivo Ready™ (IVR) products, each preparation is also evaluated for endotoxin levels using the LAL assay. It is recommended to store the product undiluted at 4°C. Do not freeze.

APPLICATION NOTES

Tonbo Biosciences tests all of our antibodies by flow cytometry. Citations may be provided as a resource for additional applications that have not been validated by Tonbo Biosciences - please consult Materials and Methods sections for additional details about the use of any product in these publications.

REFERENCES

- Cerwenka A, Bakker AB, McClanahan T, Wagner J, Wu J, Phillips JH and Lanier LL. 2000. *Immunity*. 12(6): 721-727.
- Carayannopoulos LN, Naidenko OV, Fremont DH and Yokoyama WM. 2002. *J Immunol*. 169(8): 4079-4083.
- Hamerman JA, Ogasawara K and Lanier LL. 2004. *J Immunol*. 172(4): 2001-2005. (Flow cytometry)
- Ogawawara K, Mamerman JA, Hsin H, Chikuma S, Bour-Jordan H, Chen T, Pertel T, Carnaud C, Bluestone JA and Lanier LL. 2003. *Immunity*. 18: 41-51. (in vivo blocking)
- Andre MC, Siquardottir D, Kuttruff S, Pommerl B, Handgretinger R, Rammensee HG and Steinle A. 2012. *Int J Cancer*. 131(7): 1601-1610. (Flow cytometry)

Tonbo Biosciences tests all antibodies by flow cytometry. Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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