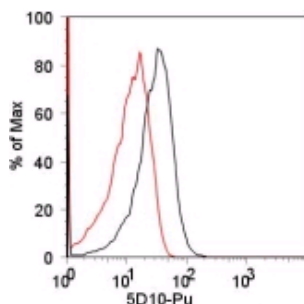


Anti-Mouse/Rat MULT1 (NKG2D Ligand) Purified

Catalog Number: 14-5863

Also Known As: NKG2DL, MULT-1

RUO: For Research Use Only



Staining of the A20 cell line with 1 µg of Armenian Hamster IgG Isotype Control Purified (cat. 14-4888) (red histogram) or 1 µg of Anti-Mouse/Rat MULT1 (NKG2D Ligand) Purified (black histogram) followed by Anti-Armenian Hamster IgG PE (cat. 12-4112). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse/Rat MULT1 (NKG2D Ligand) Purified

REF Catalog Number: 14-5863

Clone: 5D10

Concentration: 0.5 mg/ml

Host/Isotype: Armenian Hamster IgG

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

Description

The 5D10 monoclonal antibody reacts with the murine MULT-1 (Murine ULBP-Like Transcript 1). MULT-1 is a type I transmembrane protein with two Ig-like domain and is one of the known murine NKG2-D ligands that include RAE1 molecules (alpha, beta, epsilon, gamma and delta) and H60. MULT-1 is a high affinity ligand for NKG2D. Expression of NKG2-D ligands is low or absent on normal adult tissues. However, stressed or transformed cells express NKG2-D ligand and can activate NK cell tumoricidal activity. Until now, the expression of NKG2-D ligands has been mainly studied with NKG2-D tetramers recognizing all NKG2-D ligands.

Applications Reported

This 5D10 antibody has been reported for use in flow cytometric analysis, and immunohistology staining of paraffin embedded tissue sections.

Applications Tested

This 5D10 antibody has been tested by flow cytometric analysis of the A20 cell line. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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- Krmpotic A, Hasan M, Loewendorf A, Saulig T, Halenius A, Lenac T, Polic B, Bubic I, Kriegeskorte A, Pernjak-Pugel E, Messerle M, Hengel H, Busch DH, Koszinowski UH, Jonjic S. NK cell activation through the NKG2D ligand MULT-1 is selectively prevented by the glycoprotein encoded by mouse cytomegalovirus gene m145. *J Exp Med.* 2005 Jan 17;201(2):211-20. Epub 2005 Jan 10.
- Diefenbach A, Jamieson AM, Liu SD, Shastri N, Raulet DH. Ligands for the murine NKG2D receptor: expression by tumor cells and activation of NK cells and macrophages. *Nat Immunol.* 2000 Aug;1(2):119-26.

Related Products

12-4112 Anti-Armenian Hamster IgG PE (Polyclonal)

14-4888 Armenian Hamster IgG Isotype Control Purified (eBio299Arm)

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