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Anti-Human CD314 (NKG2D) (ID11)



Biotin



314B-OIMG



100 µg



RUO

1. PRODUCT DESCRIPTION

- **Clone:** ID11;
- **Isotype:** IgG1;
- **Tested application:** flow cytometry;
- **Immunogen:** The anti-CD314 monoclonal antibody derives from NKL cells;
- **Species reactivity:** Human; Cross reactivity rhesus monkey (Macaca mulatta), cynomolgus monkey (Macaca fascicularis);
- **Storage instruction:** store in the dark at 2-8 °C;
- **Storage buffer:** aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN₃);
- **Recommended usage:** Immunostep's CD314, clone ID11, is a monoclonal antibody intended for the identification and enumeration of human NK cells, CD8+ α/β T cells, and γ/δ T cells using flow cytometry. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1 test for 10⁶ cells;
- **Presentation:** liquid;
- **Source:** Supernatant proceeding from an in vitro cell culture of a cell hybridoma;
- **Purification:** Affinity chromatography;
- **Other names:** KL RK1; KLR; NKG2D; NKG2-D; NK cell receptor D;
- **Gene ID:** 22914;
- **Molecular weight:** 42 kDa.

2. ANTIGEN DETAILS

Large description: This activating receptor binds strongly to several ligands including MICA and MICB and ULBP-1, -2, and -3 proteins that are expressed by different target cell types. CD314 functions as a triggering receptor involved in natural cytotoxicity mediated by normal NK cells against a variety of tumors or normal target cells. Importantly, CD314 can complement the role of NCR in tumor cell lysis. Remarkably, the combined maskings of NCR and CD314 can reportedly lead to a complete inhibition of NK-mediated lysis of all tumor or normal cells.⁽¹⁻⁵⁾

3. WARRANTY

Warranted only to conform to the quantity and contents stated on the label or in the product labelling at the time of delivery to the customer. Immunostep disclaims hereby other warranties.

Immunostep's sole liability is limited to either the replacement of the products or refund of the purchase price.

4. ADDITIONAL INFORMATION

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5. REFERENCES

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2. Van Beneden K, De Creus A, Stevenaert F, Debachter V, Plum J, Leclercq G. Expression of inhibitory receptors Ly49E and CD94/NKG2 on fetal thymic and adult epidermal TCR V gamma 3 lymphocytes. *J Immunol*2002 Apr 01;168(7):3295-302.
3. Raulet DH. Roles of the NKG2D immunoreceptor and its ligands. *Nat Rev Immunol*2003 Oct;3(10):781-90.
4. Gasser S, Orsulic S, Brown EJ, Raulet DH. The DNA damage pathway regulates innate immune system ligands of the NKG2D receptor. *Nature*2005 Aug 25;436(7054):1186-90.
5. Zhou R, Wei H, Sun R, Zhang J, Tian Z. NKG2D recognition mediates Toll-like receptor 3 signaling-induced breakdown of epithelial homeostasis in the small intestines of mice. *Proc Natl Acad Sci U S A*2007 May 01;104(18):7512-5.

6. EXPLANATION OF SYMBOLS



Fluorochrome



Product reference



Content for <n> analysis



Regulatory Status



Research Use Only



Manufacturer

7. MANUFACTURED BY: IMMUNOSTEP S.L.



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