

Product Data Sheet

Purified anti-rat CD161

Catalog # / Size: 203101 / 100 µg

Clone: 10/78

Isotype: Mouse IgG1, κ

Immunogen: LEW rat splenic NK cells

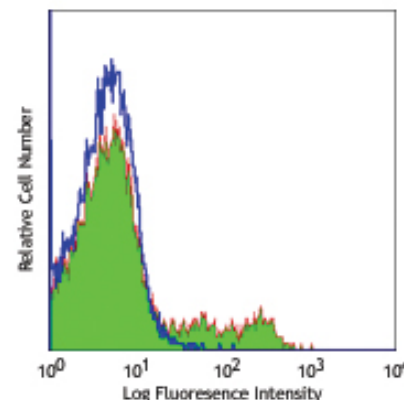
Reactivity: Rat

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.



LOU rat splenocytes stained with purified 10/78, followed by anti-mouse IgG FITC

Applications:

Applications: FC - Quality tested
IP, IHC - Reported in the literature

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation³ and immunohistochemical staining of acetone-fixed frozen sections^{1,2}. Clone 10/78 is not suitable for immunohistochemical staining of formalin-fixed paraffin-embedded sections.

Application References:

1. Sedgwick JD, *et al.* 1998. *J. Immunol.* 160:5320. (IHC)
2. Tliba O, *et al.* 2002. *Vet. Res.* 33:327. (IHC)
3. Kraus E, *et al.* 1996. *Eur. J. Immunol.* 26:2582. (IP)
4. Treacy O, *et al.* 2012. *PLoS One.* 7:e42662. (FC) PubMed

Description: CD161 molecules, known as NKR-P1, are a family of about 30 kD type II transmembrane C-type lectin-like receptors and are expressed on the cell membrane as disulphide-linked homodimer. Rat NKR-P1 receptors are primarily expressed on NK cells, a subset of T cells, dendritic cells, and activated monocytes. Carbohydrate antigens with GalNac and GlcNac moieties are the ligands for NKR-P1 molecules. CD161 receptors are thought to be involved in the regulation of NK and NKT cell function. Three rat NKR-P1 genes have been described, NKR-P1A, NKR-P1B, NKR-P1B* (or NKR-P1D). 10/78, similar like 3.2.3 antibody, recognizes a common epitope of NKR-1A (CD161a) and NKR-P1B (CD161b). NKR-P1A does not contain ITIM structure and is an activating receptor, while NKR-P1B contains an ITIM and displays an inhibitory function.

Antigen References:

1. Ryan J, *et al.* 1991. *J. Immunol.* 147:3244.
2. Chambers WH, *et al.* 1989. *J. Exp. Med.* 169:1373.
3. Pospisil M, *et al.* 2000. *Int. J. Oncol.* 16(2):267.
4. Scriba A, *et al.* 1997. *J. Leukoc. Biol.* 62(6):741.
5. Brissette-Storkus CS, *et al.* 2002. *J. Leukoc. Biol.* 71(6):941.
6. Li J, *et al.* 2003. *Int. Immunol.* 15(3):411.

Related Products:

Product
Purified Mouse IgG1, κ Isotype Ctrl
Cell Staining Buffer

Clone
MOPC-21

Application

FC, ICFC, ICC, IF, IHC, IP, WB
FC, ICC, ICFC



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