

1P-729-T100

## Monoclonal Antibody to CD161 Phycoerythrin (PE) conjugated (100 tests)

Clone: HP-3G10

**Isotype:** Mouse IgG1

Specificity: The mouse monoclonal antibody HP-3G10 recognizes CD161, a type II

transmembrane C-type lectin receptor, expressed on the plasma membrane of NK cells, dendritic cells, activated monocytes and a subset of T cells as a

disulphide-linked homodimer.

Regulatory Status: RUO

Immunogen: human NK cells

**Species Reactivity:** Human, Non-Human Primates

**Preparation:** The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum

conditions. The conjugate is purified by size-exclusion chromatography and

adjusted for direct use. No reconstitution is necessary.

Storage Buffer: The reagent is provided in stabilizing phosphate buffered saline (PBS) solution

containing 15mM sodium azide.

Storage / Stability: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not

use after expiration date stamped on vial label.

Usage: The reagent is designed for Flow Cytometry analysis of human blood cells using

10 μl reagent / 100 μl of whole blood or 10° cells in a suspension.

The content of a vial (1 ml) is sufficient for 100 tests.

**Expiration:** See vial label

Lot Number: See vial label

Background: CD161, also known as Nkrp1 (natural killer receptor protein 1) or Klrb1 (killer cell

lectin-like receptor subfamily b member 1), is a disulphide-linked homodimeric receptor, which is involved in regulation of NK cell and NKT cell function. It is expressed on a majority of NK cells, NKT cells, and e.g. Th17 cells and CD3+thymocytes. Although rat CD161 has three isoforms (a, b, c), the human CD161 is

expressed as one isoform.



## PRODUCT DATA SHEET

## References:

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\*Germain C, Meier A, Jensen T, Knapnougel P, Poupon G, Lazzari A, Neisig A, Håkansson K, Dong T, Wagtmann N, Galsgaard ED, Spee P, Braud VM: Induction of lectin-like transcript 1 (LLT1) protein cell surface expression by pathogens and interferon-γ contributes to modulate immune responses. J Biol Chem. 2011 Nov 4;286(44):37964-75

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\*Birgit Fogal, Tai Yi, Chen Wang, Deepak A. Rao, Amir Lebastchi, Sanjay Kulkarni, George Tellides, Jordan S. Pober: Neutralizing IL-6 reduces human arterial allograft rejection by allowing emergence of CD161(+) CD4(+) T regulatory cells. J Immunol. 2011 December 15; 187(12): 6268–6280.

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\*Goetzl EJ, Huang MC, Kon J, Patel K, Schwartz JB, Fast K, Ferrucci L, Madara K, Taub DD, Longo DL: Gender specificity of altered human immune cytokine profiles in aging. FASEB J. 2010 Sep;24(9):3580-9.

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