

TECHNICAL DATA SHEET

Purified Anti-Human CD161 (HP-3G10)

Catalog Number: 70-1619

PRODUCT INFORMATION

Contents: Purified Anti-Human CD161 (HP-3G10)

Isotype: Mouse IgG1, kappa

Concentration: 0.5 mg/mL

Clone: HP-3G10

Reactivity: Human

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

DESCRIPTION

The HP-3G10 antibody is specific for human CD161, also known as NKR-P1A, a type II transmembrane lectin-like receptor and member of the killer cell lectin-like receptor (KLR) family. CD161 exists as a homodimer which is prominently expressed on natural killer (NK) and NKT cells, where it is proposed to regulate the function of both cell types. CD161 is also found on T cell subsets, including T regulatory cells (Tregs), memory/effector CD4⁺ T cells, and CD8⁺ T cells. Th17 cells have been demonstrated to co-express CD161, as surface IL-17A⁺ cells are contained within the CD161⁺ fraction of CD4 T cells, so that CD161 (in combination with CCR6) is often used as a marker for enrichment of Th17 cells. The HP-3G10 antibody may be used for flow cytometric analysis of CD161 on NK and NKT cells, as well as on various T cell subsets. The antibody is also reported to be cross-reactive with Baboon, Chimpanzee and Rhesus CD161.

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

This purified format is guaranteed to be >90% pure as determined by SDS-PAGE analysis. Citations are provided as a convenience to you - please consult Materials and Methods sections for additional details about the use of any product in these publications.

REFERENCES

Yamada H, Nakashima Y, Okazaki K, Mawatari T, Fukushi J-I, Oyamada A, Fujimura K, Iwamoto Y, and Yoshikai Y. 2011. *J. Rheumatol.* 38: 1569-1575. (flow cytometry) Fogal B, Yi T, Wang C, Rao DA, Lebastchi A, Kulkarni S, Tellides G, and Pober JS. 2011. *J. Immunol.* 187: 6268-6280. (in vitro depletion) Pozo, D, Vales-Gomez, Mavaddat N, Williamson SC, Chisholm SE, and Reyburn H. 2006. *J. Immunol.* 176: 2397-2406. (western blot) Exley M, Porcelli S, Furman M, Garcia J, and Balk S. 1998. *J. Exp. Med.* 188: 867-876. (in vitro blocking, western blot)

NOTE: Please choose the appropriate format for each application. Citations are provided as a convenience to you; please consult Materials and Methods sections for additional details about the use of any product in these publications.

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