



CD161 Antibody [HP-3G10] (Violet-450)

CATALOG NUMBER: 76-832

Specifications

SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	FACS
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	The HP-3G10 monoclonal antibody specifically binds to an 80 kDa homodimer type II membrane glycoprotein from the C-type lectin superfamily, known as the human CD161 or NKR-P1A.
HOST SPECIES:	Mouse

Properties

PURIFICATION:	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
PHYSICAL STATE:	liquid
BUFFER:	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.
CONCENTRATION:	5 uL (0.5 ug) / test
STORAGE CONDITIONS:	The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.
CLONALITY:	Monoclonal
ISOTYPE:	Mouse IgG1, kappa
CONJUGATE:	Violet-450

Additional Info

ALTERNATE NAMES:	NKR, CD161, CLEC5B, NKR-P1, NKRP1A, NKR-P1A, hNKR-P1A, KLRB1
OFFICIAL SYMBOL:	KLRB1
GENE ID:	3820

Background

BACKGROUND:	The HP-3G10 monoclonal antibody specifically binds to an 80 kDa homodimer type II membrane glycoprotein from the C-type lectin superfamily, known as the human CD161 or NKR-P1A. CD161 is expressed on most natural killer cells, subsets of CD4+ and CD8+ T lymphocytes, gammadelta TCR T lymphocytes, a subset of CD3+ thymocytes, and especially on CD45RO+ T lymphocytes. Reports indicate that it may serve as a specific receptor for some natural killer cell targets and a possible stimulatory role. BG Violet 450 conjugate is an alternative to the Pacific Blue, eFluor 450, or BD Horizon V450 dyes. It is excited by the violet (405 nm) laser, with a peak emission of 450nm.
REFERENCES:	<p>1) Mrquez, C., Trigueros, C., Franco, J. M., Ramiro, A. R., Carrasco, Y. R., Lpez-Botet, M., Toribio, M. L. (1998). Identification of a common developmental pathway for thymic natural killer cells and dendritic cells. <i>Blood</i>, 91(8), 2760-2771.</p> <p>2) Cosmi, L., De Palma, R., Santarlasci, V., Maggi, L., Capone, M., Frosali, F., ... Annunziato, F. (2008). Human interleukin 17producing cells originate from a CD161+ CD4+ T cell precursor. <i>The Journal of experimental medicine</i>, 205(8), 1903-1916.</p>

3) Exley, M., Porcelli, S., Furman, M., Garcia, J., Balk, S. (1998). CD161 (NKR-P1A) costimulation of CD1d-dependent activation of human T cells expressing invariant Valpha 24Jalpha Q T cell receptor alpha chains. The Journal of experimental medicine, 188(5), 867-876.

FOR RESEARCH USE ONLY

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