



CD19 Antibody [HIB19] (Violet-450)

CATALOG NUMBER: 76-762

Specifications

SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	FACS
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	The HIB19 monoclonal antibody reacts with a human 95 kDa transmembrane glycoprotein known as CD19, which is expressed by B lymphocytes during all the developmental stages, except for the terminally differentiated plasma cells.
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:	B4, CVID3, CD19
OFFICIAL SYMBOL:	CD19
GENE ID:	930

Background

BACKGROUND:	The HIB19 monoclonal antibody reacts with a human 95 kDa transmembrane glycoprotein known as CD19, which is expressed by B lymphocytes during all the developmental stages, except for the terminally differentiated plasma cells. CD19 is also expressed on follicular dendritic cells, and seems to ensure the regulation of B lymphocytes proliferation. CD19, CD21, CD81, MHC class II, and Leu13 can bind together and form a complex which associates with the B cell receptor (BCR) on the surface of B lymphocytes and facilitates the signal transduction. 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) Knapp W(1989) Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.</p> <p>2) Schlossman, S., L. Bloumsell, et al. eds (1995). Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press. New York</p> <p>3) McMichael, A. J., Beverley, P. C. L., Cebbold, S., Crumpton, M. J., Gilks, W., Gotch, F. M., ... Waldman, H. (1987). Leukocyte typing III. White Cell Differentiation Antigens, 733-786.</p>

