

1P-368-T025

Monoclonal Antibody to CD52 Phycoerythrin (PE) conjugated (25 tests)

Clone:	HI186
Isotype:	Mouse IgG2b
Specificity:	The antibody HI186 reacts with CD52 (CAMPATH-1), a 21-28 kDa glycoprotein containing a large N-linked carbohydrate moiety; mature CD52 molecule is actually much smaller (approx. 8-9 kDa). CD52 is expressed at high levels on lymphocytes, monocytes/macrophages and in male reproductive tract. HLDA VI; WS Code BP 523 HLDA VI; WS Code T 6T-057
Immunogen:	Human tonsil
Species Reactivity:	Human
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 phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent.
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. Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.5 ml) is sufficient for 25 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD52 (CAMPATH-1, HE5) is a highly glycosylated GPI-anchored 21-28 kDa glycopeptide which is present at high levels on lymphocytes, macrophages, epithelial cells of male reproductive tract and mature sperm. Its 12-amino acid backbone carries a complex N-linked carbohydrate moiety, which differs between sperm and leukocyte CD52, as well as the GPI anchor does. CD52 can be acquired by sperm cells from seminal plasma, where it is released by epithelial cells. Although CD52 is not an essential T-cell costimulator, its triggering results in activation of normal human T cells. CD52 is a very good target for antibody/complement-mediated cell lysis.

For laboratory research only, not for drug, diagnostic or other use.



Antibodies

References:

- *Treumann A, Lifely MR, Schneider P, Ferguson MA: Primary structure of CD52. *J Biol Chem.* 1995 Mar 17;270(11):6088-99.
- *Rowan WC, Hale G, Tite JP, Brett SJ: Cross-linking of the CAMPATH-1 antigen (CD52) triggers activation of normal human T lymphocytes. *Int Immunol.* 1995 Jan;7(1):69-77.
- *Schröter S, Derr P, Conradt HS, Nimtz M, Hale G, Kirchhoff C: Male-specific modification of human CD52. *J Biol Chem.* 1999 Oct 15;274(42):29862-73.
- *Domagała A, Kurpisz M: CD52 antigen--a review. *Med Sci Monit.* 2001 Mar-Apr;7(2):325-31.
- *Koyama K, Ito K, Hasegawa A: Role of male reproductive tract CD52 (mrt-CD52) in reproduction. *Soc Reprod Fertil Suppl.* 2007;63:103-10.
- *Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).

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