

1A-368-T100

## Monoclonal Antibody to CD52 Allophycocyanin (APC) conjugated (100 tests)

|                             |   |
|-----------------------------|---|
| <b>Clone:</b>               | HI186   |
| <b>Isotype:</b>             | Mouse IgG2b   |
| <b>Specificity:</b>         | <p>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.</p> <p>HLDA VI; WS Code BP 523<br/>HLDA VI; WS Code T 6T-057</p>  |
| <b>Regulatory Status:</b>   | RUO   |
| <b>Immunogen:</b>           | Human tonsil  |
| <b>Species Reactivity:</b>  | Human   |
| <b>Preparation:</b>         | The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.   |
| <b>Storage Buffer:</b>      | The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.   |
| <b>Storage / Stability:</b> | 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.   |
| <b>Usage:</b>               | <p>The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10<sup>6</sup> cells in a suspension.</p> <p>The content of a vial (1 ml) is sufficient for 100 tests.</p>   |
| <b>Expiration:</b>          | See vial label  |
| <b>Lot Number:</b>          | See vial label  |
| <b>Background:</b>          | <p>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.</p> |

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**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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