

anti-human CD52 APC-conjugated

APC-conjugated monoclonal antibody HI186 to human CD52

Cat-No: **21270526**

500 µl

Clone: HI186

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

Isotype: Mouse IgG2b

Form: The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The reagent is adjusted for direct use. No reconstitution is necessary.

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 1% BSA and 0.09% sodium azide (pH 7.2)

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 4 °C. Avoid prolonged exposure to light.

Application: The reagent is designed for Flow Cytometry analysis of human blood cells.

References:

- *Treumann A and others: J Biol Chem. 1995 Mar 17;270(11):6088-99.
- *Rowan WC and others: Int Immunol. 1995 Jan;7(1):69-77.
- *Schröter S and others: J Biol Chem. 1999 Oct 15;274(42):29862-73.
- *Domagała A, Kurpisz M: Med Sci Monit. 2001 Mar-Apr;7(2):325-31.
- *Koyama K and others: Soc Reprod Fertil Suppl. 2007;63:103-10.

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.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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