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## Purified Mouse Anti-Human CD52 Monoclonal Antibody

**CLX56AP**  
**LOT:**

**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.

**Size:** 0.1 mg

**Species Reactivity:** Human

**Application:** **Flow Cytometry**  
Recommended dilution: 2 µg/ml

**Immunohistochemistry (paraffin sections)**

**Purity:** > 95% (by SDS-PAGE)

**Purification:** Purified from ascites by protein-G affinity chromatography.

**Concentration:** 1 mg/ml

**Storage Buffer:** Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

**Storage / Stability:** Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage, aliquot and store at -20°C. Avoid freeze/thaw cycles.

*Continued...*

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**Background:**

**CD52** (CAMPATH-1, HE5) is a highly glycosylated GPI-anchored 21-28 kDa glycopeptides 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.

**References:**

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\*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.

\*Domaga<sup>3</sup>a 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.

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**Laboratory Reagent For Research Use Only**