

Anti-Human CD52 mAb

Catalog Number: GMP-TL112

Product Name

Generic Name Anti-Human CD52 mAb

Product Information

Expression Host HEK293 cells

QC Testing Purity > 90 % as determined by SDS-PAGE

Purification Protein A purified from cell culture supernatant

Endotoxin Level < 0.1 EU per µg of the protein as determined by the LAL method

Formulation Supplied as a 0.22µm filtered solution in PBS, PH 7.4.

Stability & Storage 24 months at 2°C to 8°C.
Avoid repeated freeze-thaw cycles.

Background

CD52 is a widely distributed antigen belonging to a GPI anchored glycoprotein with only twelve amino acid residues (GQNDSQTSSPS). CD52 can be found on the surface of lymphocytes, monocytes, eosophils and dendritic cells in hematopoietic system. With a density of up to 5×10^5 molecules on lymphocytes, CD52 antigens express on many lymphoid cell malignancies and certain acute myeloid leukemia cells. When CD52 molecules are crosslinked with mAb, it triggers a series of signaling within the target cells. The signaling caused by the activation of CD52 molecules is similar to what caused by anti-CD3 antibodies. When CD52 molecules are triggered, PMA (Phorbol Myristate acetate, acetylmyridrol ester) can promote the proliferation and secretion of cytokines in normal human CD4 + and CD8 + T lymphocytes in vitro.

References

1. Quigley MM, Bethel KJ, Sharpe RW. CD52 expression in hairy cell leukemia[J]. Am J Hematol, 2003 , 74(4):227-230.
2. Rowan W, Tite J, Topley P .Cross-linking of the CAMPATH-1 antigen (CD52)mediates growth inhibition in human B- and T- lymphoma cell lines, and subsequent emergence of CD52-deficient cells[J]. Immunology , 1998 ,95:427-436. [J]. Immunology, 1998,95:427-436.