

## Anti-Human CD52 mAb

Size / Cat.No.: 100µg / GMP-TL112-0100

### 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	< 0.1EU per µg of the protein as determined by the LAL method.
Biological activity	The binding rate with MC/CAR.
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  $5 \times 10^5$  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 that 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<sup>+</sup> and CD8<sup>+</sup> 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.