



Mouse anti CD52 Monoclonal Antibody

Alternative Name(s): nan

Order Information

- **Description:** CD52
- **Catalogue:** 605-300
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** ZY164
- **Application:** IHC(P), FC
- **Reactivity:** Hu

ANTIGEN PREPARATION

A recombinant protein of human CD52

BACKGROUND

CD52 is a small glycoprotein containing a large N-linked carbohydrate moiety that was originally identified as the target of the lymphocyte-depleting CAMPATH rat monoclonal antibody. CD52 is highly expressed on lymphoid cells, especially memory CD4+ T cells and B cells, and on myeloid cells, particularly CD16+ dendritic cells and monocytes. Soluble CD52 inhibits Toll-like receptor and tumor necrosis factor receptor signaling to limit activation of NF- κ B and thereby suppress the production of inflammatory cytokines by macrophages, monocytes and dendritic cells. At higher concentrations, soluble CD52 depletes the short-lived pro-survival protein MCL-1, contributing to activation of the BH3-only proteins BAX and BAK to cause intrinsic apoptotic cell death. Campath-1H (alemtuzumab) is a humanized antibody against CD52 currently approved for chronic lymphocytic leukemia (CLL) therapy. The anti-CD52 monoclonal antibody alemtuzumab reduces disease activity in previously untreated patients with relapsing-remitting multiple sclerosis

PURIFICATION

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes human CD52 protein. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 μ g/ml
- ELISA: 0.01-0.1 μ g/ml
- Immunoprecipitation: 2-5 μ g/ml
- IHC: 2-10 μ g/ml
- Flow cytometry: 0.5-5 μ g/106 cells
- Molecular Weight: 6.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

FOR RESEARCH USE ONLY.

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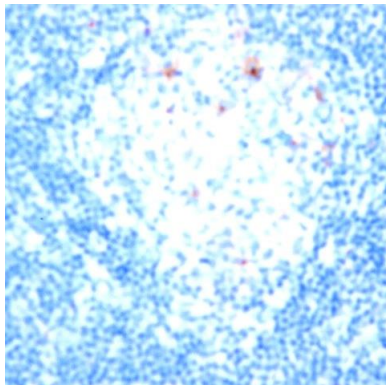


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DATA ATTACHMENTS



Immunohistochemistry: Human Tonsil (FFPE) stained with Mouse anti-CD52 (Clone ZY164) (Cat# 605-300) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES

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