

Anti-Mouse CD22 (MB22-11) In Vivo Antibody - Low Endotoxin

Product Code: ICH1216

More Information

Species Reactivity: Mouse

Target: CD22

Concentration: >1mg/ml

Isotype: Mouse IgG2c

Host: Mouse

product name H2: Anti-Mouse CD22 (MB22-11) In Vivo Antibody - Low Endotoxin

Antibodies against the same target: [Anti-Mouse CD22 \(Cy34.1\) In Vivo Antibody - Low Endotoxin \(ICH1181\)](#), [Pinatuzumab Biosimilar - Research Grade \(ICH5093\)](#), [Epratuzumab Biosimilar - Research Grade \(ICH5194\)](#), [Inotuzumab Biosimilar - Research Grade \(ICH5247\)](#), [Bectumomab Biosimilar - Research Grade \(ICH5379\)](#), [Mozistobart Biosimilar - Research Grade \(ICH5693\)](#), [Suciraslimab Biosimilar - Research Grade \(ICH5884\)](#)

Aggregation: Aggregation level $\leq$ 5%

Immunogen: MAdCAM-1

Buffer: ICH3001-100ml ICH3002-100ml ICH3003-100ml

UniProt: P35329

Gene ID: 12483

Shipping Conditions: Blue ice

background: Anti-Mouse CD22 clone MB22-11 is a mouse IgG2c monoclonal that recognizes mouse CD22 (Siglec-2), a B-cell-restricted inhibitory co-receptor encoded by the

gene mapping to UniProt P35329. Because the antibody is of mouse origin and the mouse IgG2c isotype, it is well suited to functional studies in immunocompetent mouse models, where a syngeneic-matched constant region minimizes anti-isotype responses over repeat dosing and engages mouse activating and inhibitory Fc gamma receptors and complement in a physiologically relevant way. This lot is manufactured for in vivo and functional in vitro use: it is supplied at low endotoxin (research grade below 1 EU/mg; ultra-low grade below 0.5 EU/mg) to limit confounding innate immune stimulation, is available in bulk milligram-to-gram quantities to support multi-cohort dosing studies, and is intended strictly for research use only. Researchers typically identify this reagent by its clone designation, MB22-11, when reproducing or extending published B-cell biology, CD22-directed targeting, and B-lineage modulation experiments in mouse systems. CD22 (Siglec-2) is a type I transmembrane sialic-acid-binding immunoglobulin-like lectin expressed almost exclusively on B lymphocytes, appearing in the cytoplasm of pro/pre-B cells and on the surface of mature IgM+/IgD+ B cells. It functions primarily as an inhibitory co-receptor of the B-cell antigen receptor: its cytoplasmic immunoreceptor tyrosine-based inhibitory motifs (ITIMs) recruit the phosphatase SHP-1, dampening BCR signaling and setting thresholds for B-cell activation. Its extracellular domains bind alpha-2,6-linked sialic acids, mediating homotypic and cis interactions that regulate CD22 clustering and localization. Through these activities CD22 contributes to B-cell tolerance, survival, and the calibration of humoral responses. Its restricted, high-density B-cell expression and rapid internalization on ligation also make CD22 a prominent target for antibody-directed B-cell modulation and payload delivery.

Other names: Lyb-8, Siglec-2, BL-CAM, MB22 11, MB2211

clone: MB22-11

Purification Method: This monoclonal antibody was purified using Protein A

Formulation: This antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (PBS) pH 7.2, 150 mM NaCl with no carrier protein, potassium or preservatives added.

Purity: >95% by SDS-PAGE and HPLC

Endotoxin: ≤ 1.0 EU/mg as determined by the LAL method

Storage: This low endotoxin antibody is stable when stored at 2-8°C for at least four (4) weeks. For long-term storage aseptically aliquot in working volumes without diluting and store at -80°C. Avoid Repeated Freeze Thaw Cycles.

Applications: In vivo

Use: Products are for research use only. Not for use in diagnostic or therapeutic procedures.

Suggested H1: Anti-Mouse CD22/Lyb-8 (MB22-11) In Vivo Antibody - Low Endotoxin

FAQ (Q&A):

Q: Is clone MB22-11 suitable for in vivo use?

A: Yes — MB22-11 is supplied low-endotoxin and in vivo-grade for in vivo CD22 studies and in vitro work.

Q: Can I order MB22-11 in bulk?

A: Yes, it is manufactured in scalable milligram to gram quantities for bulk and high-throughput experiments.

Q: What does clone MB22-11 target?

A: It is an anti-mouse monoclonal antibody that binds CD22; for research use only.