

# CD20 Monoclonal Antibody (AISB12), Functional Grade, eBioscience™

Product Details	
Size	100 µg
Species reactivity	Mouse
Published species	Mouse
Host / Isotype	Rat / IgG2a
Class	Monoclonal
Type	Antibody
Clone	AISB12
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4°C
RRID	AB_10669700

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	-
Functional Assay (Functional)	Assay-Dependent	1 Publication
Miscellaneous Pubmed (Misc)	-	1 Publication
Western Blot (WB)	Assay-Dependent	2 Publications

## Product Specific Information

**Description:** The AISB12 monoclonal antibody reacts with mouse CD20. CD20 is a B cell-specific 32kDa membrane protein involved in intracellular calcium regulation. CD20 expression begins after the induction of CD19 during development, and is coexpressed with IgM during the pre-B to immature B cell transition in bone marrow. Expression then increases during maturation with almost all mature cells expressing some level of CD20. The human CD20 antigen has proven to be an effective immunotherapeutic target in B cell lymphoma and several autoimmune diseases including rheumatoid arthritis and type I diabetes. CD20 consists of 4 transmembrane domains and a 44 amino acid extracellular loop domain where AISB12 binds.

**Applications Reported:** This AISB12 antibody has been reported for use in flow cytometric analysis, western blotting and functional assays.

**Applications Tested:** This AISB12 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Storage and handling:** Use in a sterile environment.

**Filtration:** 0.2 µm post-manufacturing filtered.

**Purity:** Greater than 90%, as determined by SDS-PAGE.

**Endotoxin Level:** Less than 0.001 ng/µg antibody, as determined by LAL assay.

**Aggregation:** Less than 10%, as determined by HPLC.

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