Rat β_2-Microglobulin Antibody

Monoclonal Mouse IgM Clone # 747502
Catalog Number: MAB3864

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat β2-Microglobulin in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant rat α2-Macroglobulin is observed.
Source	Monoclonal Mouse IgM Clone # 747502
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant rat β2-Microglobulin Ile21-Met119 Accession # P07151
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

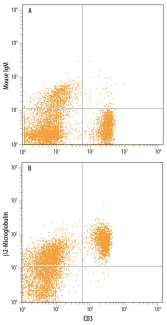
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Flow Cytometry	2.5 µg/10^6 cells	See Below

DATA

Flow Cytometry



Detection of Rat β2-Microglobulin in Rat Splenocytes. Rat splenocytes were stained with Anti-Rat CD3 FITC-conjugated Monoclonal Antibody and either (A) Mouse IgM Isotype control or (B) Mouse Anti-Rat β2-Microglobulin Monoclonal Antibody (Catalog # MAB3864) followed by Allophycocyanin-conjugated Anti-Mouse IgM Secondary Antibody (Catalog # F0117).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

β_2-Microglobulin (β_2M) is a ubiquitous, 12 kDa, secreted, non-glycosylated protein required for cell surface expression and non-covalent assembly of MHC Class I molecules and CD1 cell surface glycoproteins. Mature rat β_2M is a 99 amino acid (aa) peptide containing one C1-type Ig-like domain (aa 22-116). In humans, β_2M is known to dissociate from the MHC complex and circulate as full-length and N-terminal-truncated peptides of 93, 91, and 90 amino acids. Mature rat β_2M is 86% and 75% identical to the corresponding mouse and human protein sequences, respectively.