Rat β_2-Microglobulin Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3864

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat β_2-Microglobulin (β_2M) in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant rat β_2-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.

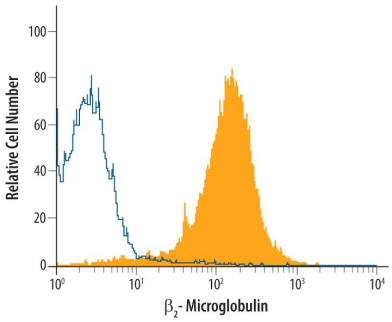
APPLICATIONS

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
Western Blot	0.1 µg/mL	Recombinant Rat β_2-Microglobulin
Flow Cytometry	2.5 µg/10^6 cells	See Below

DATA

Flow Cytometry



Detection of β2-Microglobulin in Rat Splenocytes by Flow Cytometry. Rat splenocytes were stained with Rat β_2-Microglobulin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3864, filled histogram) or control antibody (Catalog # AB-108-C, open histogram), followed by Phycoerythrin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0107).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
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.

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