

Rat β_2 -Microglobulin Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgM Clone # 747502

Catalog Number: FAB3864R

100 μ g

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat β_2 -Microglobulin in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant rat α_2 -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 β_2 -Microglobulin Ile21-Met119 Accession # P07151
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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	0.25-1 μ g/ 10^6 cells	Rat splenocytes

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

β_2 -Microglobulin (β_2 M) 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_2 M is a 99 amino acid (aa) peptide containing one C1-type Ig-like domain (aa 22-116). In humans, β_2 M 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_2 M is 86% and 75% identical to the corresponding mouse and human protein sequences, respectively.

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