

# Rat $\beta_2$ -Microglobulin Alexa Fluor® 594-conjugated Antibody

Monoclonal Mouse IgM Clone # 747502  
Catalog Number: FAB3864T  
100  $\mu$ g

## DESCRIPTION

<b>Species Reactivity</b>	Rat
<b>Specificity</b>	Detects rat $\beta_2$ -Microglobulin in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant rat $\alpha_2$ -Macroglobulin is observed.
<b>Source</b>	Monoclonal Mouse IgM Clone # 747502
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant rat $\beta_2$ -Microglobulin Ile21-Met119 Accession # P07151
<b>Conjugate</b>	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
<b>Formulation</b>	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
<b>Flow Cytometry</b>	0.25-1 $\mu$ g/10 <sup>6</sup> cells	Rat splenocytes

## PREPARATION AND STORAGE

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

## BACKGROUND

$\beta_2$ -Microglobulin ( $\beta_2$ 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  $\beta_2$ M is a 99 amino acid (aa) peptide containing one C1-type Ig-like domain (aa 22-116). In humans,  $\beta_2$ 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  $\beta_2$ M is 86% and 75% identical to the corresponding mouse and human protein sequences, respectively.

## PRODUCT SPECIFIC NOTICES

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