

**DESCRIPTION**

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse Themis in direct ELISAs and Western blots. In Western blots, 100% cross-reactivity with recombinant human (rh) Themis (aa 2-282) is observed under non-reducing conditions, and approximately 10% cross-reactivity with rhThemis (aa 2-282) is observed under reducing conditions.
<b>Source</b>	Monoclonal Rat IgG <sub>2B</sub> Clone # 719945
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse Themis Lys122-Lys237 Accession # Q8BGW0
<b>Conjugate</b>	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Intracellular Staining by Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	Mouse thymocytes fixed with paraformaldehyde and permeabilized with saponin

**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**

Themis (thymocyte-expressed molecule involved in selection), also called Gasp (Grb2-associating protein), is a 72 kDa, 641 amino acid (aa) cytosolic phosphoprotein mainly expressed in late double-negative and double-positive thymocytes. It is involved in thymocyte positive and negative selection through regulation of TCR signaling. Within the region used as an immunogen, mouse Themis shares 87% and 96% aa sequence identity with human and rat Themis, respectively.

**PRODUCT SPECIFIC NOTICES**

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