Mouse Themis
Alexa Fluor® 594-conjugated Antibody

Monoclonal Rat IgG_{2B} Clone # 719945

Catalog Number: IC6816T

100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	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.
Source	Monoclonal Rat IgG_{2B} Clone # 719945
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant mouse Themis Lys122-Lys237 Accession # Q8BGW0
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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
Intracellular Staining by Flow Cytometry	0.25-1 µg/10^6 cells	Mouse thymocytes fixed with paraformaldehyde and permeabilized with saponin

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.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

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.

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