

Human Themis Antibody

Monoclonal Mouse IgG_{2A} Clone # 701010 Catalog Number: MAB6929

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Themis in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse Themis is observed.		
Source	Monoclonal Mouse IgG _{2A} Clone # 701010		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human Themis Ala2-Pro282 Accession # Q8N1K5		
Formulation	n Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

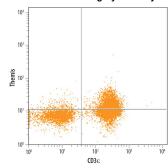
APPLICATIONS

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
Intracellular Staining by Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Intracellular Staining by Flow Cytometry



Detection of Themis in Human Blood Lymphocytes by Flow Cytometry Human peripheral blood lymphocytes were stained with Mouse Anti-Human Themis Monoclonal Antibody (Catalog # MAB6929) followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B) and Mouse Anti-Human CD3ε APC-conjugated Monoclonal Antibody (Catalog # FAB100A). Quadrant markers were set based on control antibody staining (Catalog # MAB003).

PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.5 mg/mL

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

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, human THEMIS shares 86% as sequence identity with mouse and rat THEMIS.

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