Human TRIM21 Antibody

Monoclonal Mouse IgG_1 Clone # 672722

Catalog Number: MAB6219

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TRIM21 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) TRIM, rhTRIM5, rhTRIM5a, rhTRIM32, rhTRIF (aa 29-204), or rhTRIF (aa 474-618) is observed
Source	Monoclonal Mouse IgG_1 Clone # 672722
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human TRIM21 Arg195-Pro293 Accession # P19474
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

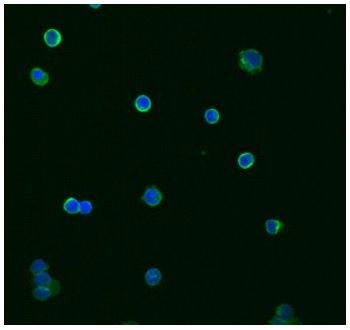
APPLICATIONS

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
Immunocytochemistry	8-25 µg/mL	See Below

DATA

Immunocytochemistry



TRIM21 in Human PBMCs. TRIM21 was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) stimulated for 8 hours with 20 ng/mL of Recombinant Human IFN-gamma (Catalog # 285-IF) using Mouse Anti-Human TRIM21 Monoclonal Antibody (Catalog # MAB6219) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 493-conjugated Anti-Mouse IgG Secondary Antibody (green; Catalog # NL009) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces and cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

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

TRIM21 (Tripartite motif-containing protein 21; also Ro(SS-A), 52 kDa Ro Protein/Ro52, and RING finger protein 81) is a 52-56 kDa member of the RING finger-B-box-coiled-coil family of proteins. It is an E3 ligase that is found in both nucleus and cytoplasm, where it is often associated with microtubules. TRIM21 ubiquitinates select proteins. In B cells, it targets the Fc fragment of misfolded IgG, providing QC on its production. In macrophages, it acts in a nondegradative manner on IRF8, promoting innate immunity. Human TRIM21 is 475 amino acids (aa) in length. It contains one E3 ligase RING finger domain (aa 16-55), a B-Box type zinc-finger region (aa 92-123), a coiled-coil region (aa 128-238) and a C-terminal SPRY/B30.2 Ig binding domain (aa 268-465). TRIM21 is reported to form trimers. Over aa 195-293, human TRIM21 exhibits 72% aa identity with mouse TRIM21.

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