Human TRIM21 Antibody

Monoclonal Mouse IgG_{2A} Clone # 672714

Catalog Number: MAB62191

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TRIM21 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) TRIM5 or rhTRIM32 is observed.
Source	Monoclonal Mouse IgG_{2A} Clone # 672714
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.

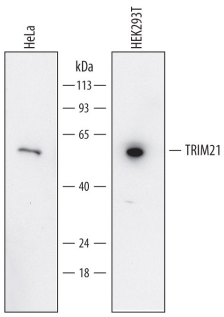
APPLICATIONS

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
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Human TRIM21 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line and HEK293T human embryonic kidney cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human TRIM21 Monoclonal Antibody (Catalog # MAB62191) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for TRIM21 at approximately 54 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

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.