Human/Mouse/Rat TRIM63/MuRF1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: AF5366

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat TRIM63/MuRF1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human TRIM63/MuRF1 Met1-Gly325 Accession # Q969Q1
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

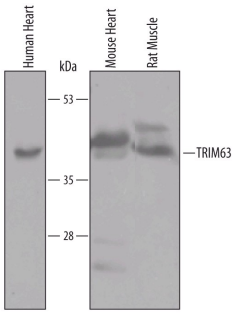
APPLICATIONS

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/Mouse/Rat TRIM63 by Western Blot. Western blot shows lysates of human heart, mouse heart, and rat muscle tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human/Mouse/Rat TRIM63 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5366) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for TRIM63 at approximately 41-44 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
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

TRIM63 (Tripartite motif-containing protein 63; also MURF-1, SMRZ and RING finger protein 28) is a 41 kDa member of the RING finger-B-box-coiled-coil family of proteins. It is a striated muscle protein that is found in both cytoplasm and nucleus. TRIM63 has multiple finctions, among which are the inhibition of PKCε-mediated cardiomyocyte hypertrophy and the maintenance of skeletal muscle M-line integrity. Human TRIM63 is 353 amino acids (aa) in length. It contains one RING finger domain (aa 23-82), a B-Box type zinc-finger region (aa 117-159), a coiled-coil region (aa 207-269) and a C-terminal COS domain. Isoforms of TRIM63 show one potential alternate start site at Met14, a deletion of aa 105-132 and a 21 aa substitution for aa 326-353. Over aa 1-325, human TRIM63 exhibits 93% aa identity with mouse TRIM63.