**DESCRIPTION**

**Species Reactivity** Human/Mouse/Rat

**Specificity** Detects human, mouse, and rat MuRF1/TRIM63 in direct ELISAs and Western blots.

**Source** Polyclonal Goat IgG

**Purification** Antigen Affinity-purified

**Immunogen** E. coli-derived recombinant human MuRF1/TRIM63 Met1-Gly325

**Accession #** Q969Q1

**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 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.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Recommended Concentration</th>
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<tbody>
<tr>
<td>Western Blot</td>
<td>1 μg/mL</td>
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<tr>
<td>Simple Western</td>
<td>10 μg/mL</td>
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</tbody>
</table>

**DATA**

**Western Blot**

Detection of Human/Mouse/Rat MuRF1 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 MuRF1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5366) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for MuRF1 at approximately 41-44 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

**Simple Western**

Detection of Human MuRF1/TRIM63 by Simple Western™. Simple Western lane view shows lysates of human heart tissue, loaded at 0.2 mg/mL. A specific band was detected for MuRF1/TRIM63 at approximately 46 kDa (as indicated) using 10 μg/mL of Goat Anti-Human/Mouse/Rat MuRF1/TRIM63 Antibody (Catalog # AF5366) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

**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.

- *Small pack size (SP) is supplied 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**

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 functions, 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.