

Anti-MuRF1 (C-terminal region) Antibody

Catalog # AN1841

Product Information

Application WB
Primary Accession Q969Q1
Host Mouse

Clonality Mouse Monoclonal

IsotypeIgG1Clone NamesM316Calculated MW40248

Additional Information

Gene ID 84676

Other Names Tripartite motif 63, TRIM63, SMRZ, IRF, RNF28, Muscle RING finger, MURF-1

Target/Specificity Muscle proteolysis is regulated by the ATP-dependent ubiquitin–proteasome

system. This system involves ubiquitination of specific proteins, leading to recognition and degradation by the 26S proteasome complex. Ubiquitination requires interactions with ubiquitin related proteins, ubiquitin-activating (E1), ubiquitin-conjugating (E2) and ubiquitin-ligating enzymes (E3) known as ligases. Two muscle specific ubiquitin ligases have been identified, muscle ring finger 1 (MuRF-1) and Atrogin 1. Both ligases are regulated by the Akt1/FOXO1 signaling pathway, and both proteins have been shown to be upregulated prior to the onset of atrophy in multiple models of muscle wasting, including disuse and cachexia. MuRF1 is also known as TRIM63, SMRZ, and RNF28, and its expression is upregulated after TNFα treatment in C2C12 cells and muscle tissue, while localization of MuRF1 protein has been

observed in the cytoplasm and nucleus of cells.

Dilution WB~~1:1000

Storage Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions Anti-MuRF1 (C-terminal region) Antibody is for research use only and not for

use in diagnostic or therapeutic procedures.

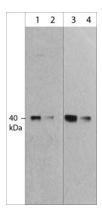
Shipping Blue Ice

Background

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Images



Western blot analysis of human full length MuRF1 recombinant protein. The blot was probed with mouse monoclonal MuRF1 (C-terminal region) at 1:250 (lane 1) and 1:1000 (lane 2) and rabbit polyclonal MuRF1 (C-terminal region) at 1:1000 (lanes 3) and 1:4000 (lane 4).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.