Product Datasheet

MuRF1 Antibody

Catalog No: #48394

Package Size: #48394-1 50ul #48394-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	MuRF1 Antibody
Host Species	Mouse
Clone No.	B8-E1
Purification	ProA affinity purified
Applications	ICC, IHC, FC
Species Reactivity	Hu
Immunogen Description	Recombinant protein
Other Names	E3 ubiquitin-protein ligase TRIM63 antibody FLJ32380 antibody IRF antibody Iris RING finger protein antibody MURF 1 antibody MURF-1 antibody MuRF1 antibody MURF2 antibody Muscle specific ring finger protein 1 antibody Muscle specific ring finger protein 2 antibody Muscle-specific RING finger protein 1 antibody OTTHUMP00000008701 antibody RING finger protein 28 antibody RNF 28 antibody RNF28 antibody SMRZ antibody Striated muscle RING zinc finger protein antibody TRI63_HUMAN antibody TRIM 63 antibody Trim63 antibody Tripartite motif containing 63 antibody tripartite motif containing 63, E3 ubiquitin protein ligase antibody Tripartite motif containing protein 63 antibody Tripartite motif-containing protein 63 antibody Ubiquitin ligase TRIM63 antibody
Accession No.	Swiss-Prot#:Q969Q1
Calculated MW	40 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

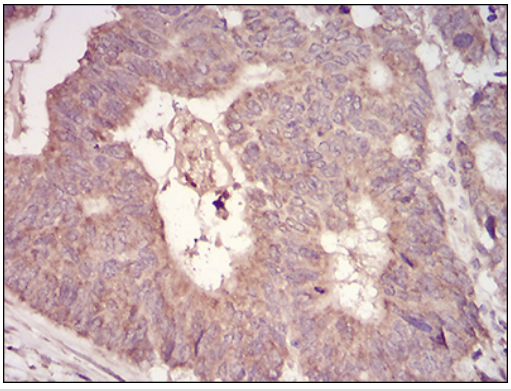
Application Details

IHC: 1:50-1:200

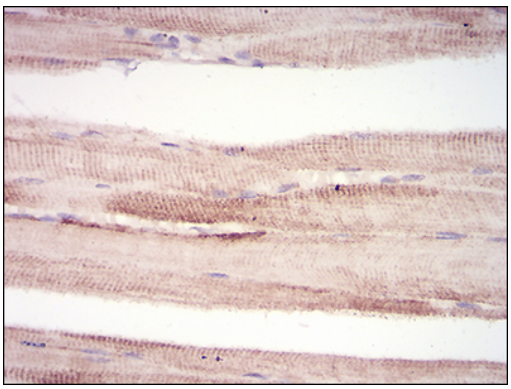
ICC: 1:50-1:200

FC: 1:50-1:100

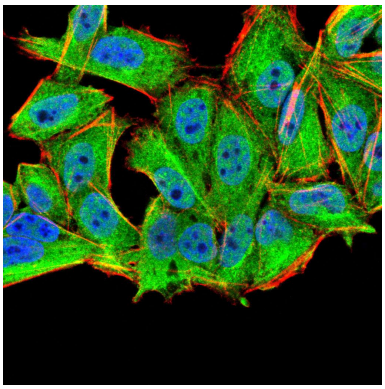
Images



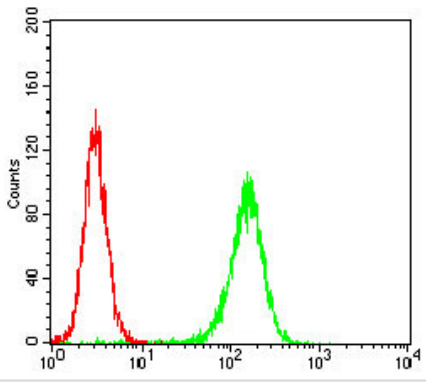
Immunohistochemical analysis of paraffin-embedded human rectum cancer tissues using anti-MuRF1 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded huamn muscle tissues? using anti-MuRF1 antibody. Counter stained with hematoxylin.



ICC staining MuRF1(green) and Actin filaments?(red)?in?Hela?cells.?The?nuclear?counter?stain?is ?DAPI?(blue).?Cells?were?fixed?in?paraformaldehyde,?perm eabilised? with?0.25%?Triton?X100/PBS.



Flow cytometric analysis of Hela cells with MuRF1 antibody at 1/100 dilution (green) compared with an unlabelled control (cells without incubation with primary antibody; red).

Background

Muscle specific RING finger protein (MuRF1) is a sarcomere-associated protein that is upregulated by conditions that provoke atrophy. Pharmacological or genetic inhibition of the IKKbeta/NF-kappaB/MuRF1 pathway reverses muscle atrophy, which presents MuRF as a target for clinical intervention. MuRF1 is a key regulator of the PKC-dependent hypertrophic response and can blunt cardiomyocyte hypertrophy, which may have important implications in the pathophysiology of clinical cardiac hypertrophy. MuRF1 directly associates with Titin kinase and influences microtubule-dependent signaling pathways in striated muscle and iris. MuRF1 upregulation is an indicator for skeletal muscle atrophy mechanisms that utilize ubiquitin-dependent proteolysis. MuRF1 transcript levels are high in situations where there is an overabundance of reactive oxygen species, such as cancer, AIDS and sepsis.

References

1. Pomiès P ?et al.Involvement of the FoxO1/MuRF1/Atrogin-1 Signaling Pathway in the Oxidative Stress-Induced Atrophy of Cultured Chronic Obstructive Pulmonary Disease Myotubes.?PLoS One11:e0160092 (2016).

2. Li B ?et al.?Baicalin, a component of Scutellaria baicalensis, alleviates anorexia and inhibits skeletal muscle atrophy in experimental cancer cachexia.?Tumour Biol?N/A:N/A (2014).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.