

# Product Datasheet

## MuRF1/TRIM63 Antibody NB100-2406

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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[technical@novusbio.com](mailto:technical@novusbio.com)

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**NB100-2406**


MuRF1/TRIM63 Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

Product Description	
Host	Goat
Gene ID	84676
Gene Symbol	TRIM63
Species	Human, Mouse, Rat
Immunogen	Peptide with sequence C-QQYQEQLDKSTKLVE corresponding to internal region according to NP_115977.2.

Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Western Blot 0.3 ug/ml, Immunohistochemistry 1.25 ug/ml, Immunohistochemistry-Paraffin 1.25 ug/ml, Peptide ELISA Detection limit 1:32000
Application Notes	WB: Preliminary experiments gave an approx. 75 kDa band in human heart and skeletal muscle lysates after 0.3 ug/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the band we observe given the calculated size of 40.2 kDa band according to NP_115977.2. The 75 kDa band was successfully blocked by incubation with the immunizing peptide. IHC: Paraffin embedded Human Skeletal Muscle.

**Images**

Immunohistochemistry-Paraffin: MuRF1/TRIM63 Antibody [NB100-2406]   
 - Staining of paraffin embedded Human Skeletal Muscle. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

## Publications

Wang Z, Sa G, Wei Z et al. Obvious morphologic changes in the mandible and condylar cartilage after triple botulinum toxin injections into the bilateral masseter American journal of orthodontics and dentofacial orthopedics : official publication of the American Association of Orthodontists, its constituent societies, and the American Board of Orthodontics 2020-10-01 [PMID: 32988574] (IF/IHC, Rat)

Mota R, Rodriguez JE, Bonetto A et al. Post-translationally modified muscle-specific ubiquitin ligases as circulating biomarkers in experimental cancer cachexia. Am J Cancer Res. 2017-10-05 [PMID: 28979816] (WB, Mouse)

### Details:

Used to detect circulating MuRF1 in diluted mouse serum samples by western blot following implantation of tumors

Cao PR, Kim HJ, Lecker SH. Ubiquitin-protein ligases in muscle wasting. Int J Biochem Cell Biol 2005-10-01 [PMID: 16125112]

Opperman CM, Sishi BJ. Tumor necrosis factor alpha stimulates p62 accumulation and enhances proteasome activity independently of ROS Cell Biol. Toxicol. 2015-03-12 [PMID: 25761618] (WB, Rat)

### Details:

MuRF1/TRIM63 antibody (Imgenex: IMX-3924) was used for WB assay on lysates of H9C2 rat cardiomyoblast cell line following daily treatment with TNF-alpha. Signal detection was performed using peroxidase-conjugated affinity-purified anti-goat IgG and ECL method (Fig. 6).

Dumont NA, Frenette J. Macrophage Colony-Stimulating Factor-Induced Macrophage Differentiation Promotes Regrowth in Atrophied Skeletal Muscles and C2C12 Myotubes Am J Pathol 2012-11-27 [PMID: 23201131]

Willis MS, Rojas M, Li L et al. Muscle Ring Finger-1 (MuRF1) Mediates Cardiac Atrophy in vivo. Am J Physiol Heart Circ Physiol 2009-04-01 [PMID: 19168726]

Marioni G, Staffieri A, Giacomelli L et al. Mammalian target of rapamycin expression and laryngeal squamous cell carcinoma prognosis: novel preliminary evidence. Histopathology;58(7):1148-1156. 2011-06-01 [PMID: 21707714] (IF/IHC, Human)

Penet M-F, Gadiya MM, Krishnamachary B et al. Metabolic signatures imaged in cancer-induced cachexia. Cancer Research. 2011-09-26 [PMID: 21948967]





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NB100-2406**

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HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control
H00084676-P01-10ug	Recombinant Human MuRF1/TRIM63 GST (N-Term) Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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