

# Product Datasheet

## GDF-8/Myostatin Antibody (3E7) - Azide and BSA Free H00002660-M07

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**H00002660-M07**

GDF-8/Myostatin Antibody (3E7) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3E7
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4

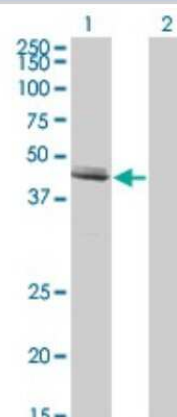
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	2660
Gene Symbol	MSTN
Species	Human, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 26730720).
Specificity/Sensitivity	GDF8 (3E7)
Immunogen	GDF8 (NP_005250, 241 a.a. ~ 310 a.a) full length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. GPGEDGLNPFLEVKVTDTPKRSRRDFGLDCDEHSTESRCCRYPLTVDFEAFG WDWIIAPKRYKANYCS
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.

Product Application Details	
Applications	Western Blot, ELISA
Recommended Dilutions	Western Blot 1:500, ELISA
Application Notes	Antibody reactivity against cell lysate, transfected lysate and recombinant protein for WB. It has been used for ELISA.

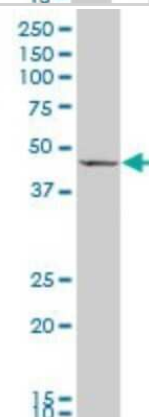


## Images

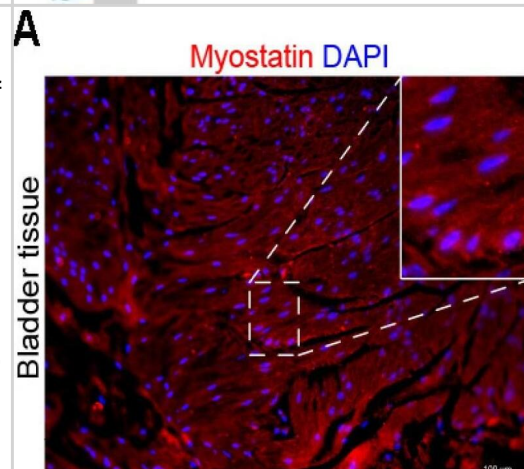
Western Blot: GDF-8/Myostatin Antibody (3E7) [H00002660-M07] - Analysis of GDF8 expression in transfected 293T cell line by GDF8 monoclonal antibody (M07), clone 3E7. Lane 1: GDF8 transfected lysate (42.8 kDa). Lane 2: Non-transfected lysate.



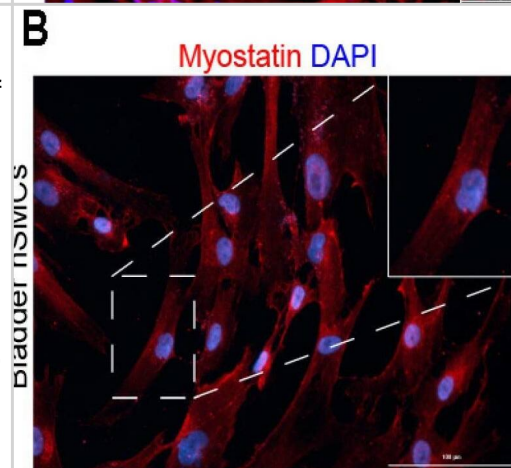
Western Blot: GDF-8/Myostatin Antibody (3E7) [H00002660-M07] - Analysis of GDF8 expression in LNCaP (Cat # L004V1).



Immunocytochemistry/ Immunofluorescence: GDF-8/Myostatin Antibody (3E7) [H00002660-M07] - Myostatin expression in human bladder smooth muscle tissue & cells. (A) Immunofluorescence staining image of myostatin protein (red) in pediatric bladder muscle tissue. Cell nuclei stained with DAPI (blue). 10× magnification (B) Immunofluorescence staining image of myostatin protein (red) in pediatric bladder-derived hSMCs. 20× magnification (C) Flow cytometry comparison of myostatin-positive cells in pediatric bladder-derived control & ESLUTD hSMCs. (D) Representative immunoblot by WES of active myostatin (48 kDa) & its propeptides (100, 52 kDa) in bladder-derived smooth muscle tissue & cells. GAPDH (40 kDa) as a housekeeping protein. \*  $p \leq 0.05$ . Scale bar, 100  $\mu\text{m}$ . Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/36901894>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunocytochemistry/ Immunofluorescence: GDF-8/Myostatin Antibody (3E7) [H00002660-M07] - Myostatin expression in human bladder smooth muscle tissue & cells. (A) Immunofluorescence staining image of myostatin protein (red) in pediatric bladder muscle tissue. Cell nuclei stained with DAPI (blue). 10× magnification (B) Immunofluorescence staining image of myostatin protein (red) in pediatric bladder-derived hSMCs. 20× magnification (C) Flow cytometry comparison of myostatin-positive cells in pediatric bladder-derived control & ESLUTD hSMCs. (D) Representative immunoblot by WES of active myostatin (48 kDa) & its propeptides (100, 52 kDa) in bladder-derived smooth muscle tissue & cells. GAPDH (40 kDa) as a housekeeping protein. \*  $p \leq 0.05$ . Scale bar, 100  $\mu\text{m}$ . Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/36901894>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Salemi S, Schori L, Gerwinn T et al. Myostatin Overexpression and Smad Pathway in Detrusor Derived from Pediatric Patients with End-Stage Lower Urinary Tract Dysfunction International Journal of Molecular Sciences 2023-02-24 [PMID: 36901894]

Macedo AG, Krug AL, Souza LM et al. Time-course changes of catabolic proteins following muscle atrophy induced by dexamethasone. Steroids. 2015-12-28 [PMID: 26730720] (WB, Rat)

Ryan AS, Li G, Blumenthal JB, Ortmeyer HK. Aerobic exercise + weight loss decreases skeletal muscle myostatin expression and improves insulin sensitivity in older adults. Obesity (Silver Spring). 2013-07-01 [PMID: 23687104] (WB, Human)



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**Products Related to H00002660-M07**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
210-TA-005	TNF-alpha [Unconjugated]

**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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