Product Datasheet

Myogenin Antibody (5FD) - BSA Free NB100-56510

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB100-56510

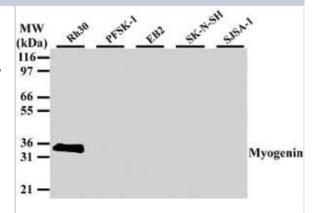
Myogenin Antibody (5FD) - BSA Free

| Myogeriin Antibody (or b) - box i ree | |
|---------------------------------------|---|
| Product Information | |
| Unit Size | 0.1 mg |
| Concentration | 1.0 mg/ml |
| Storage | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| Clonality | Monoclonal |
| Clone | 5FD |
| Preservative | 0.05% Sodium Azide |
| Isotype | IgG1 |
| Purity | Protein G purified |
| Buffer | PBS |
| Product Description | |
| Host | Mouse |
| Gene ID | 4656 |
| Gene Symbol | MYOG |
| Species | Human, Mouse, Rat |
| Immunogen | A recombinant protein corresponding to amino acids 30-224 of rat myogenin was used as immunogen (NP_002470). |
| Product Application Details | |
| Applications | Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin |
| Recommended Dilutions | Western Blot 2 ug/mL, Immunohistochemistry 1:20 - 1:1000, Immunocytochemistry/ Immunofluorescence 5 ug/mL, Immunohistochemistry-Paraffin 20 - 40 ug/mL, Immunohistochemistry-Frozen 10 - 20 ug/mL |

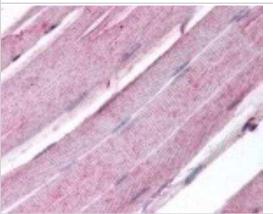


Images

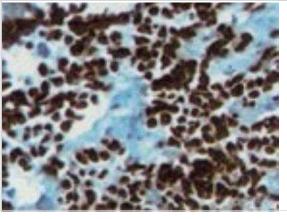
Western Blot: Myogenin Antibody (5FD) [NB100-56510] - Analysis of Myogenin expression in various small-round cell tumor lines. The antibody strongly reacted with a band at ~34 kDa in alveolar rhobdomyosarcoma line (Rh30). Negative cell lines were PFSK-1, EB2, SK-N-SH, and SJSA-1.



Immunohistochemistry: Myogenin Antibody (5FD) [NB100-56510] - Human myocytes using NB100-56703 at 2.5 ug/mL. Hematoxylin-eosin counterstain.



Immunohistochemistry-Frozen: Myogenin Antibody (5FD) [NB100-56510] - Analysis of Myogenin in human alveolar rhabdomyosarcoma using NB100-56510 at 5 ug/mL.



Publications

Li X, Zhu Y, Zhang H et al. MicroRNA-106a-5p Inhibited C2C12 Myogenesis via Targeting PIk3R1 and Modulating the PI3k/AkT Signaling. Genes (Basel). 2018-07-02 [PMID: 30004470]

Chenchen Li, Haigang Cao, Yingchun Ren, Jinrui Jia, Gongshe Yang, Jianjun Jin, Xin'e Shi Eicosapentaenoic acid-mediated activation of PGAM2 regulates skeletal muscle growth and development via the PI3K/AKT pathway. International journal of biological macromolecules 2024-04-17 [PMID: 38641281]

Nakazawa K, Shaw T, Song YK et al. Piperacetazine directly binds to the PAX3::FOXO1 fusion protein and inhibits its transcriptional activity Cancer research communications 2023-09-21 [PMID: 37732905] (WB, Human)

Hammers DW, Hart CC, Matheny MK et al. Filopodia powered by class x myosin promote fusion of mammalian myoblasts eLife 2021-09-14 [PMID: 34519272] (B/N)

Cao, H;Du, T;Li, C;Wu, L;Liu, J;Guo, Y;Li, X;Yang, G;Jin, J;Shi, X; MicroRNA-668-3p inhibits myoblast proliferation and differentiation by targeting Appl1 BMC genomics 2023-07-24 [PMID: 37488537] (B/N, WB)

Zhao T, Zhao R, Yi X et al. METTL3 promotes proliferation and myogenic differentiation through m6A RNA methylation/YTHDF1/2 signaling axis in myoblasts Life sciences 2022-03-26 [PMID: 35351467] (WB, Mouse)

Flavie Ouali BE, Wang HV Beta-agonist drugs modulate the proliferation and differentiation of skeletal muscle cells in vitro Biochemistry and biophysics reports 2021-07-01 [PMID: 34041371] (WB, Mouse)

Peng Y, Xu M, Dou M et al. MicroRNA-129-5p Inhibited C2C12 Myogenesis and Repressed Slow Fiber Gene Expression in vitro American journal of physiology. Cell physiology 2021-04-07 [PMID: 33826407]

Cai R, Zhang Q, Wang Y et al. Lnc-ORA interacts with microRNA-532-3p and IGF2BP2 to inhibit skeletal muscle myogenesis The Journal of biological chemistry 2021-02-03 [PMID: 33548229] (WB, Mouse)

Liu S, Sun Y, Zhao R et al. Isoleucine increases muscle mass through promoting myogenesis and intramyocellular fat deposition Food Funct. 2020-11-16 [PMID: 33289736]

Osaki T, Uzel SGM, Kamm RD On-chip 3D neuromuscular model for drug screening and precision medicine in neuromuscular disease Nat Protoc. [PMID: 31932771] (FLOW, Human)

McCoy CR, Stadelman BS, Brumaghim JL et al. Arsenic and Its Methylated Metabolites Inhibit the Differentiation of Neural Plate Border Specifier Cells Chem. Res. Toxicol. 2015-06-10 [PMID: 26024302] (IHC-P. Mouse)

Details:

SOX10 antibody (clone 1E6) was used for IHC-P staining of embryoid bodies which were generated / differentiated from mouse P19 mouse embryonal carcinoma cell line using the hanging drop method (Wang and Yang 2008, J Visualized Exp. 17, 825). The staining assay implicated antigen rertieval via citric acid buffer pH 6 using microwave, 1 hour blocking with 1× PBS, 5%BSA, and 0.05% Tween-20, use of primary at 1:200 dilution with 4C ON incubation, detection with Alexa Fluor conjugated secondary antibody (Figure 2, Figure 4).

More publications at http://www.novusbio.com/NB100-56510





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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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