Product Datasheet

Desmin Antibody (Y66)
NB110-56931

Unit Size: 0.1 ml

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

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Reviews: 2 Publications: 9

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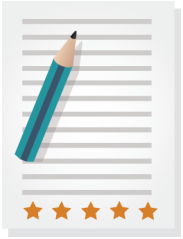

NB110-56931

Desmin Antibody (Y66)

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	Y66
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	Protein A or G purified
Buffer	59% PBS (pH 7.2), 0.05% BSA and 40% Glycerol
Target Molecular Weight	53 kDa

Product Description	
Host	Rabbit
Gene ID	1674
Gene Symbol	DES
Species	Human, Mouse, Rat, Guinea Pig
Reactivity Notes	Guines Pig reactivity reported in scientific literature (PMID: 22027755). Sheep from review data.
Immunogen	A synthetic peptide corresponding to C-terminus of human Desmin was used as immunogen.
Notes	Produced using Abcam's RabMab® technology. RabMab® technology is covered by the following U.S. Patents, No. 5,675,063 and/or 7,429,487.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:1000-10000, Flow Cytometry 1:10-100, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500
Application Notes	This product is useful for: Western Blot, Immunohistochemistry-Paraffin. Immunocytochemistry/Immunofluorescence was reported in scientific literature. In Western blot this antibody detects a band at approximately 53kDa.

Publications

Weiskirchen S, Tag CG, Sauer-Lehnen S et al. Isolation and Culture of Primary Murine Hepatic Stellate Cells Methods Mol. Biol. 2017-08-24 [PMID: 28836201] (FLOW, Mouse)

Tannour-Louet M, Han S, Louet JF et al. Increased gene copy number of the vesicle SNARE VAMP7 disrupts human male urogenital development through altered estrogen action. Nat Med 2014-07-01 [PMID: 24880616]

Kaza E, Ablasser K, Poutias D et al. Up-regulation of soluble vascular endothelial growth factor receptor-1 prevents angiogenesis in hypertrophied myocardium. Cardiovasc Res 2011-02-01 [PMID: 20935166]

Dai M, Yang Y, Omelchenko I et al. Bone marrow cell recruitment mediated by inducible nitric oxide synthase/stromal cell-derived factor-1alpha signaling repairs the acoustically damaged cochlear blood-labyrinth barrier. Am J Pathol 2010-12-01 [PMID: 21057001]

Galeano B, Klootwijk R, Manoli I et al. Mutation in the key enzyme of sialic acid biosynthesis causes severe glomerular proteinuria and is rescued by N-acetylmannosamine. J Clin Invest 2007-06-01 [PMID: 17549255] (WB)

Yoon S, Molloy MJ, Wu MP et al. C6ORF32 is upregulated during muscle cell differentiation and induces the formation of cellular filopodia. Dev Biol 2007-01-01 [PMID: 17150207] (ICC/IF)

Koning M, Werker PM, van Luyn MJ et al. A global downregulation of microRNAs occurs in human quiescent satellite cells during myogenesis Differentiation 2012-11-01 [PMID: 23023067] (ICC/IF, Human)

Li L, Haider HKh, Wang L, Lu G, Ashraf M. Adenoviral short hairpin RNA therapy targeting phosphodiesterase 5a relieves cardiac remodeling and dysfunction following myocardial infarction. Am J Physiol Heart Circ Physiol;302 (10):H2112-21. 2012-05-01 [PMID: 22447941] (IF/IHC, ICC/IF, Mouse)

Ahmed RP, Ashraf M, Buccini S et al. Cardiac tumorgenic potential of induced pluripotent stem cells in an immunocompetent host with myocardial infarction. Regen Med. 2011-03-01 [PMID: 21391851]

Procedures

Immunohistochemistry Protocol for Desmin Antibody (NB110-56931)
Immunohistochemistry Protocol for Paraffin-embedded Tissues

1. Solutions and reagents
1.1. Xylene
1.2. Ethanol, anhydrous denatured, histological grade (100%, 95%, 70%)
1.3. Washing buffer:
TBST washing buffer: 1XTBS/0.1% Tween-20
To prepare stock solution of 10X TBS: add 24.2 g Trizma base and 80 g sodium chloride to 1L of dH2O. Adjust pH to 7.6.
Working solution. 1XTBST/0.1% Tween-20: add 100ml 10XTBS to 900 ml dH2O. Add 1 ml Tween-20 and mix well.
1.4. Distilled water (dH2O)
1.5. Antigen Retrieval Solution:
0.01M Sodium Citrate Buffer, pH 6.0
To prepare stock solutions:
Solution A. 0.1 M citric acid solution: dissolve 21.0 g of citric acid, monohydrate (C6H8O7.H2O) in 1 liter of dH2O.
Solution B. 0.1M sodium citrate solution: dissolve 29.4 g trisodium citrate dihydrate (C6H5Na3O7.2H2O) in 1 liter of dH2O.
Working solution: Add 9 ml of Stock solution A and 41 ml of stock solution B to 450 ml of dH2O. Adjust pH to 6.0.
1.6. 3% Hydrogene Peroxide
1.7. Blocking buffer:
PBS (Dulbeccos Phosphate Buffered Salts, 1X, catalog #21-031-CV from Mediatech, Inc.) + 10% serum (serum origin depends on the host of the secondary antibody)
1.8. Hematoxylin QS (catalog #H-3404 from Vector Laboratories, Inc.)
1.9. Permanent Mounting medium (VectaMount, catalog# H-5000 Vector Laboratories, Inc.)

2. Protocol

2.1. Deparaffinization/Rehydration
2.1.1. Heat slides in an oven at 65C for 1 hour.
2.1.2. De-paraffinize/hydrate using the following series of washes: two Xylene washes (5 min each), followed by two 100% ethanol rinses (5 min each), followed by 95% ethanol, 70% ethanol, 50% ethanol, 30% ethanol, followed by H2O and a TBST wash for 5 min on a shaker.
2.2. Antigen Retrieval
2.2.1. Immerse slides into staining dish containing Antigen Retrieval Solution.
2.2.2. Place covered staining dish into the rice cooker. Add 120 ml of dH2O.
2.2.3. When cook is turned to warm (about 20 to 30 min), unplug the cooker and remove the staining dish to the bench top.
2.2.4. Allow to cool down, without cover, for 20 min.
2.3. Staining
2.3.1. Wash slides with TBST for 5 min on a shaker.
2.3.2. Inactivate endogenous peroxidase by covering tissue with 3% hydrogen peroxide for 10 min.
2.3.3. Wash slides three times with TBST (3 min each on a shaker).
2.3.4. Block slides with the blocking solution for 1 hour.
2.3.5. Dilute primary antibody in the blocking buffer per recommendation on the data sheet.
2.3.6. Apply primary antibody to each section and incubate overnight in the humidified chamber (4C).
2.3.7. Wash slides three times with TBST (3 min each on a shaker).
2.3.8. Apply to each section secondary HRP-conjugated anti-rabbit antibody diluted in the blocking solution per manufacturers recommendation; incubate for 1 hour at room temperature.
2.3.9. Wash slides three times with TBST (3 min each on a shaker).
2.3.10. Add freshly prepared DAB substrate to the sections.
2.3.11. Incubate tissue sections with the substrate at room temperature until suitable staining develops (generally 2 to 5 min).
2.3.12. Rinse sections with water.
2.3.13. Counterstain with Hematoxylin.
2.3.14. Rinse sections with water.
2.3.15. Dehydrate samples using two rinses with 100% Ethanol (20 dips per rinse) followed by two rinses with Xylene (30 dips per rinse).
2.3.16. Mount coverslips on slides using Permount medium.

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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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