

Datasheet for ABIN3043265
anti-Desmin antibody (AA 1-304)

7 Images

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Overview

Quantity:	100 µg
Target:	Desmin (DES)
Binding Specificity:	AA 1-304
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Desmin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Desmin(DES) detection. Tested with WB, IHC-P, IHC-F in Human, Mouse, Rat.
Immunogen:	E.coli-derived human Desmin recombinant protein (Position: M1-T304). Human Desmin shares 97% amino acid (aa) sequences identity with both mouse and rat Desmin.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Desmin(DES) detection. Tested with WB, IHC-P, IHC-F in Human, Mouse, Rat. Gene Name: desmin Protein Name: Desmin

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: Desmin (DES)

Alternative Name: DES ([DES Products](#))

Background: DES, also called desmin, is a protein that in humans is encoded by the DES gene, and this gene is mapped to 2q35. DES is the muscle-specific member of the intermediate filament (IF) protein family. It is one of the earliest myogenic markers, both in heart and somites, and is expressed in satellite stem cells and replicating myoblasts. DES is very important in muscle cell architecture and structure since it connects many components of the cytoplasm. It may be also play an important role in mitochondria function. What's more, DES provides attachments between the terminal Z disc and membrane-associated proteins to form a force-transmitting system that parallels the thin filaments at myotendinous junctions.

Synonyms: CMD11 antibody|CSM1 antibody|CSM2 antibody|DES antibody|DESM_HUMAN antibody|Desmin antibody|FLJ12025 antibody|FLJ39719 antibody|FLJ41013 antibody|FLJ41793 antibody|Intermediate filament protein antibody|OTTHUMP00000064865 antibody

Gene ID: 1674

UniProt: [P17661](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat, The detection limit for Desmin is approximately 0.25 ng/lane under reducing conditions.
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat
Notes: Tested Species: Species with positive results. Other applications have not been tested.
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and IHC(F).

Restrictions: For Research Use only

Handling

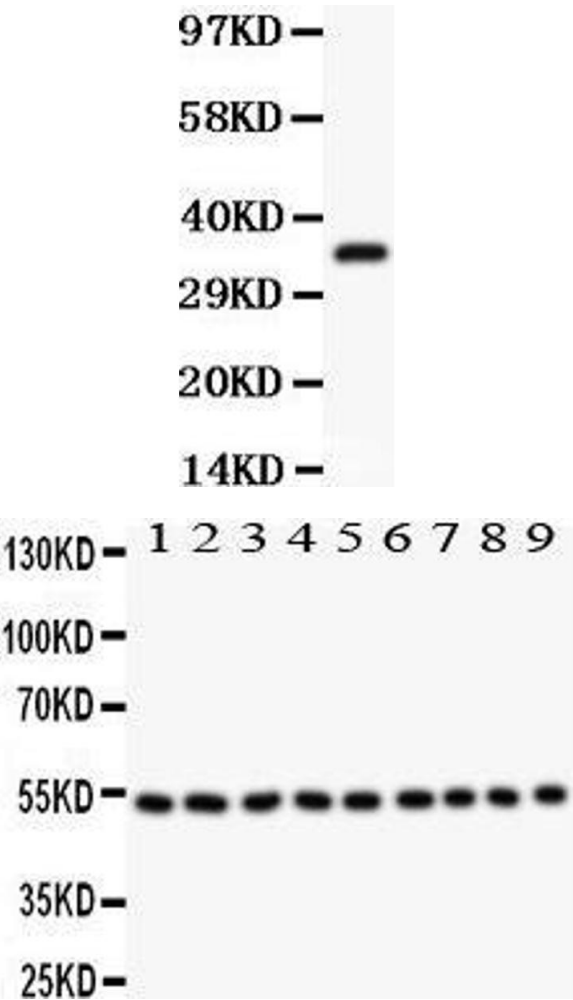
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in:	<p>Huang, Chen, Guo, Chen, Zhang, Chen, Wang: "Interleukin-10 promotes primary rat hepatic stellate cell senescence by upregulating the expression levels of p53 and p21." in: Molecular medicine reports, Vol. 17, Issue 4, pp. 5700-5707, (2018) (PubMed).</p> <p>Liu, Du, Zhu, Zhang, Sun, Liu, Li, Wang, Du: "Identification of apoptosis-related microRNAs and their target genes in myocardial infarction post-transplantation with skeletal myoblasts." in: Journal of translational medicine, Vol. 13, pp. 270, (2016) (PubMed).</p> <p>Jiang, Zhang, Fang, Zhang, Lu, Zhu, Cheng, Ai, Zhou, Li, Fang, Yao: "Analgesic effects of Chinese Tuina massage in a rat model of pain." in: Experimental and therapeutic medicine, Vol. 11, Issue 4, pp. 1367-1374, (2016) (PubMed).</p> <p>Zhang, Deng, Wen, Chen, Liu, Ye, Huang, Jiang, Xiong: "PPARγ and MyoD are differentially regulated by myostatin in adipose-derived stem cells and muscle satellite cells." in: Biochemical and biophysical research communications, Vol. 458, Issue 2, pp. 375-80, (2015) (PubMed).</p> <p>Gao, Zhi, Yang, Li, Yan, Wang: "Low dose of IGF-I increases cell size of skeletal muscle satellite cells via Akt/S6K signaling pathway." in: Journal of cellular biochemistry, Vol. 116, Issue 11, pp. 2637-48, (2015) (PubMed).</p>
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There are more publications referencing this product on: [Product page](#)

Images

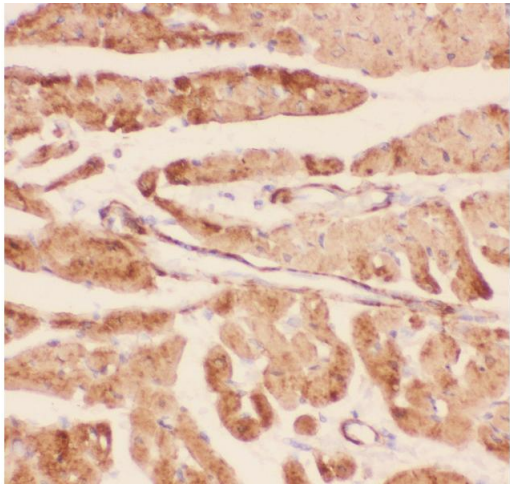


Western Blotting

Image 1. Anti-Desmin Picoband antibody, All lanes: Anti Desmin at 0.5ug/ml WB: Recombinant Human Desmin Protein 0.5ng Predicted bind size: 36KD Observed bind size: 36KD

Western Blotting

Image 2.



Immunohistochemistry

Image 3. Anti-Desmin Picoband antibody, IHC(P): Rat Cardiac Muscle Tissue

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN3043265.