Datasheet for ABIN3042344

anti-Vimentin antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	Vimentin (VIM)
Binding Specificity:	AA 435-466, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Vimentin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Vimentin(VIM) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Vimentin (435-466aa DTHSKRTLLIKTVETRDGQVINETSQHHDDLE), identical to the related mouse and rat sequences.
Sequence:	DTHSKRTLLI KTVETRDGQV INETSQHHDD LE
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Vimentin(VIM) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: vimentin

Product Details

	Protein Name: Vimentin
Purification:	Immunogen affinity purified.

Target Details

Target:	Vimentin (VIM)
Alternative Name:	VIM (VIM Products)
Background:	VIM(vimentin) is also known as HEL113 or CTRCT30. This gene encodes a member of the intermediate filament family. Intermediate filamentents, along with microtubules and actin microfilaments, make up the cytoskeleton. The protein encoded by this gene is responsible for maintaining cell shape, integrity of the cytoplasm, and stabilizing cytoskeletal interactions. It is also involved in the immune response, and controls the transport of low-density lipoprotein (LDL)-derived cholesterol from a lysosome to the site of esterification. It functions as an organizer of a number of critical proteins involved in attachment, migration, and cell signaling. Mutations in this gene causes a dominant, pulverulent cataract. Synonyms: CTRCT30 antibody|Epididymis luminal protein 113 antibody|FLJ36605 antibody|HEL113 antibody|VIM antibody|VIME_HUMAN antibody|vimentin antibody
Gene ID:	7431
UniProt:	P08670
Pathways:	Caspase Cascade in Apoptosis

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat, The detection limit for Vimentin is approximately 0.1 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. 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).
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 Na2HPO4, 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

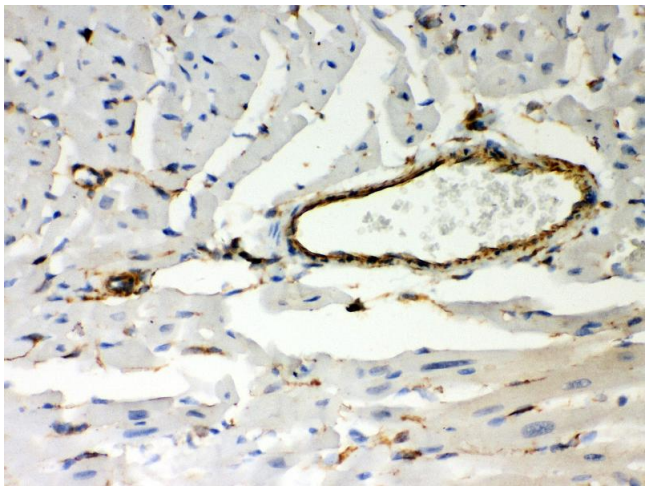
Product cited in:	Li, Zang, He, Chen, Yu, Pei, Hou, An, Yang, Zhang, Liu: "Expression of pannexin 1 and 2 in cortical lesions from intractable epilepsy patients with focal cortical dysplasia." in: **Oncotarget**, Vol. 8, Issue 4, pp. 6883-6895, (2018) (PubMed). Xu, Xiao, Luo, Chen, Zhang, Tao, Jiang, Chen, Shen: "Inhibitory effects of oxymatrine on TGF-β1-induced proliferation and abnormal differentiation in rat cardiac fibroblasts via the p38MAPK and ERK1/2 signaling pathways." in: **Molecular medicine reports**, Vol. 16, Issue 4, pp. 5354-5362, (2018) (PubMed). Bu, Zhang, Wang, Lai: "Human amniotic epithelial cells inhibit growth of epithelial ovarian cancer cells via TGF-β1-mediated cell cycle arrest." in: **International journal of oncology**, Vol. 51, Issue 5, pp. 1405-1414, (2018) (PubMed). Gu, Fang, Kang, Hu, Yu, Li, Cheng, Gao: "Effect of ALDH2 on High Glucose-Induced Cardiac Fibroblast Oxidative Stress, Apoptosis, and Fibrosis." in: **Oxidative medicine and cellular longevity**, Vol. 2017, pp. 9257967, (2018) (PubMed). Zhang, Bu, Sun, Xu, Yao, He, Lai: "Paracrine effects of human amniotic epithelial cells protect against chemotherapy-induced ovarian damage." in: **Stem cell research & therapy**, Vol. 8, Issue

Publications

1, pp. 270, (2018) (PubMed).

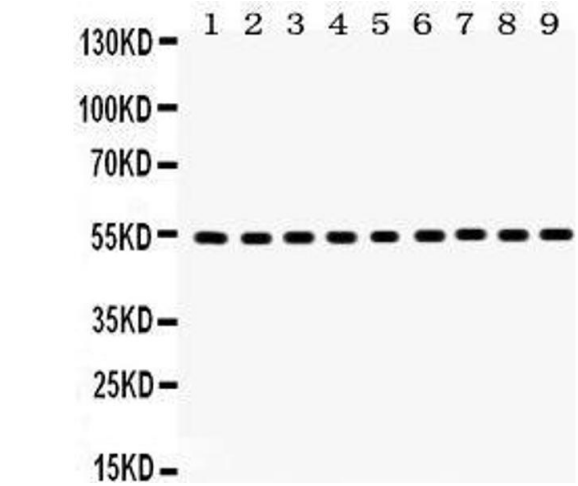
There are more publications referencing this product on: Product page

Images



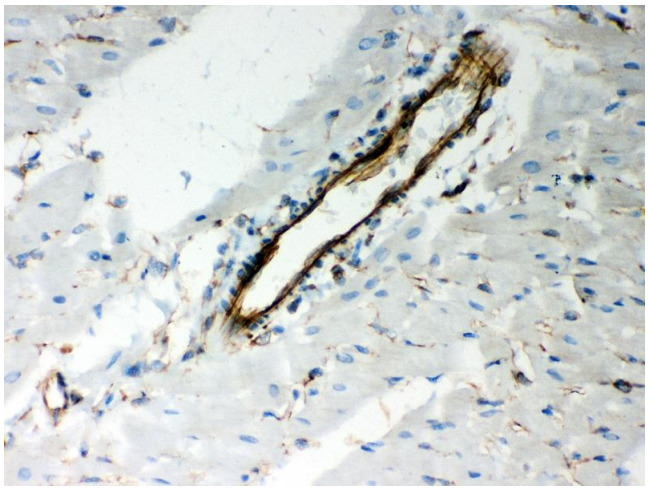
Immunohistochemistry

Image 1. Anti- Vimentin Picoband antibody, IHC(P) IHC(P): Mouse Cardiac Muscle Tissue



Western Blotting

Image 2. Anti- Vimentin Picoband antibody, Western blotting All lanes: Anti Vimentin at 0.5ug/ml Lane 1: Whole Cell Lysate at 40ug Lane 2: NIH Whole Cell Lysate at 40ug Lane 3: JURKAT Whole Cell Lysate at 40ug Lane 4: HUT Whole Cell Lysate at 40ug Lane 5: MCF-7 Whole Cell Lysate at 40ug Lane 6: HELA Whole Cell Lysate at 40ug Lane 7: Human Placenta Tissue Lysate at 50ug Lane 8: Rat Testis Tissue Lysate at 50ug Lane 9: Mouse Testis Tissue Lysate at 50ug Predicted bind size: 54KD Observed bind size: 54KD



Immunohistochemistry

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

Images

Please check the product details page for more images. Overall 5 images are available for ABIN3042344.