

# Vimentin Polyclonal Antibody

Catalog No: #27578



Package Size: #27578-1 50ul #27578-2 100ul

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## Description

Product Name	Vimentin Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB;IHC;IF
Species Reactivity	Human;Mouse;Rat
Immunogen Description	Recombinant fusion protein of human Vimentin (NP_003371.2).
Conjugates	Unconjugated
Other Names	VIM; CTRCT30; HEL113; vimentin
Accession No.	Swiss-Prot#:P08670NCBI Gene ID:7431
Calculated MW	54kDa
SDS-PAGE MW	54-57kDa
Formulation	Avoid freeze / thaw cycles. Buffer: PBS with 50% glycerol, pH7.4.
Storage	Store at -20°C

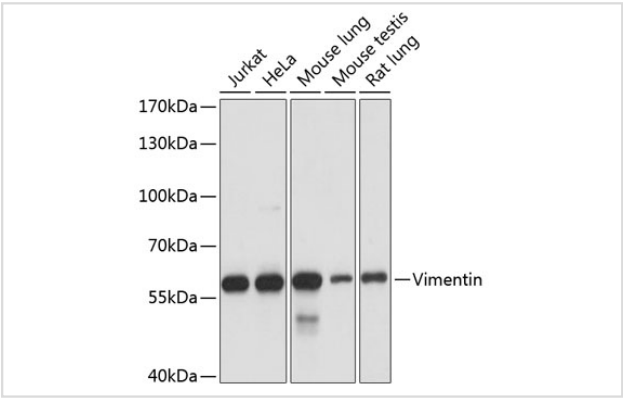
## Application Details

WB 1:500 - 1:2000

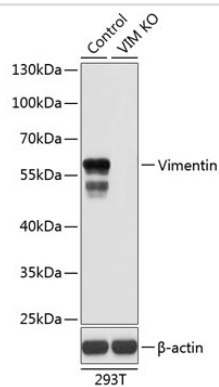
IHC 1:50 - 1:200

IF 1:50 - 1:200

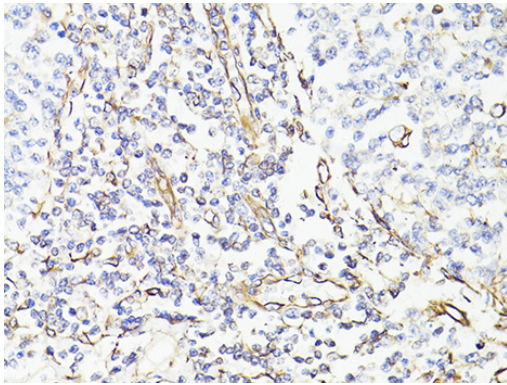
## Images



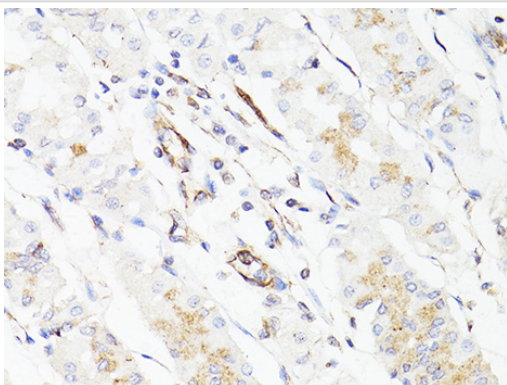
Western blot analysis of extracts of various cell lines, using Vimentin at 1:1000 dilution.



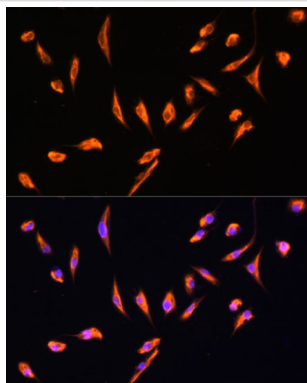
Western blot analysis of extracts from normal (control) and Vimentin knockout (KO) 293T cells, using Vimentin at 1:1000 dilution.



Immunohistochemistry of paraffin-embedded human tonsil using Vimentin at dilution of 1:150 (40x lens).



Immunohistochemistry of paraffin-embedded human stomach using Vimentin at dilution of 1:150 (40x lens).



Immunofluorescence analysis of L929 cells using [KO] Vimentin at dilution of 1:100. Blue: DAPI for nuclear staining.

## Background

This gene encodes a member of the intermediate filament family. Intermediate filaments, 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.

## Published Papers

et al., Neferine, a novel ROCK1-targeting inhibitor, blocks EMT process and induces apoptosis in non-small cell lung cancer. In J Cancer Res Clin Oncol on 2022 Aug 19 by Po Hu, Peng Wan, et al..PMID:35984492, , (2022)

[PMID:35984492](#)

Zhu Tian-Yi;Hu Po;Mi Yu-Hui;Zhang Jun-Li;Xu An-Na;Gao Ming-Tong;Zhang Ying-Ying;Shen San-Bing;Yang Guang-Ming;Pan Yang et al., Telomerase reverse transcriptase gene knock-in unleashes enhanced longevity and accelerated damage repair in mice, , (2024)

[PMID:](#)

et al., Anti-cancer drug 3, 3i ?diindolylmethane activates Wnt4 signaling to enhance gastric cancer cell stemness and tumorigenesis.In Oncotarget on 2016 Mar 29 by Yanhua Zhu , Bin Zhang et al..PMID:26918831, , (2016)

[PMID:26918831](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.