

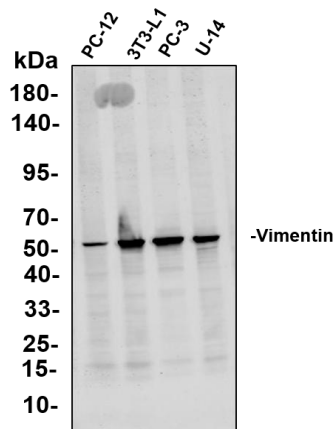
# Vimentin Rabbit Monoclonal Antibody

OPM17809YP

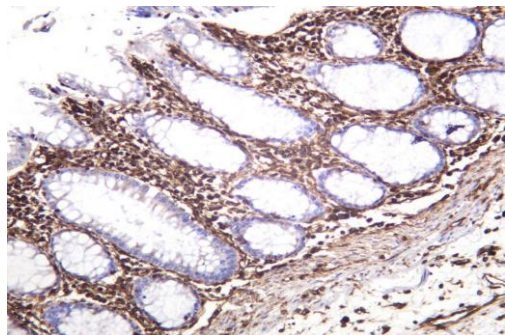
<b>Reactivity</b>	H,M,R	<b>Storage</b>	-15°C to -25°C/1 year (Do not lower than -25°C)
<b>Host</b>	Rabbit	<b>Applications</b>	WB;IHC;IF;ELISA
<b>Isotype</b>	IgG	<b>Concentration</b>	0.5mg/mL

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

## Images



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the Primary Antibody was used at 4°C, over night with a 1:5000 dilution. The Dylight 800-conjugated Goat anti-Rabbit Antibody.



Human colon was stained with anti-Vimentin Rabbit Antibody.

## Tissue Specificity

Highly expressed in fibroblasts, some expression in T- and B-lymphocytes, and little or no expression in Burkitt's lymphoma cell lines. Expressed in many hormone-independent mammary carcinoma cell lines.

## Product Information

**Observed MW** 54kD

**Buffer** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA.

**Dilution** IHC:- 1:1000-1:5000; WB:- 1:1000-1:5000;  
IF:- 1:200-1:1000; ELISA:- 1:5000-1:20000;  
**Note:** For IHC, we suggest antigen retrieval with TE buffer pH 9.0

Other applications have not been tested. Optimal dilutions/concentrations should be determined by the end user.

## Usage Suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## 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.

## Research Use

For research use only, not for use in diagnostic procedure.

## Function

Vimentin is a class III intermediate filament protein found in various non-epithelial cells, especially mesenchymal cells, where it plays an important role in maintaining cellular integrity and cytoskeletal organization., online information: Vimentin entry., PTM: One of the most prominent phosphoproteins in various cells of mesenchymal origin. Phosphorylation is enhanced during cell division, during which Vimentin filaments undergo significant reorganization., sequence caution: Intron retention., similarity: Belongs to the intermediate filament family., subunit: Forms homopolymers. Interacts with HCV core protein, LGSN, and SYNM., tissue specificity: Highly expressed in fibroblasts, with some expression in T- and B-lymphocytes, and little or no expression in Burkitt's lymphoma cell lines. Also expressed in many hormone-independent mammary carcinoma cell lines.

## Legend

Applications: WB-Western Blot; IHC-Immunohistochemistry; IF-Immunofluorescence; IP-Immunoprecipitation; FC-Flow cytometry; ChIP-Chromatin Immunoprecipitation

Reactivity: H-Human; R-Rat; M-Mouse; Mk-Monkey; Dg-Dog; Ch-Chicken; Hm-Hamster; Rb-Rabbit; Sh- Sheep; Pg-Pig; Z-Zebrafish; X-Xenopus; C-Cow.

Please contact Origin Diagnostics and Research for further assistance

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