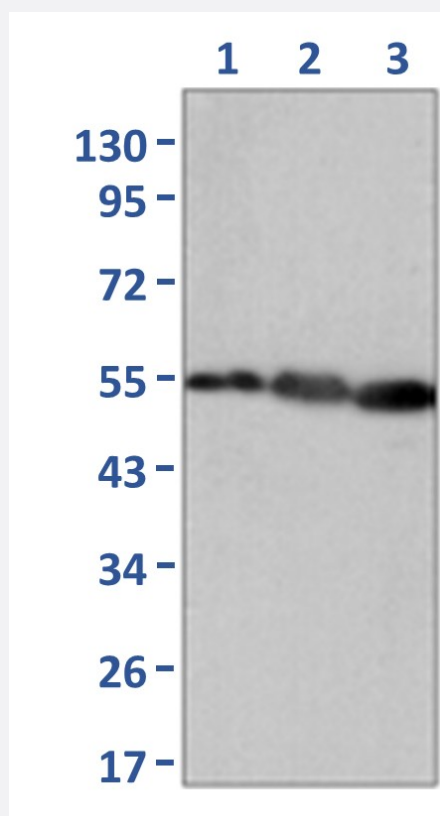


RecomAb™

# Vimentin recombinant monoclonal antibody

Catalog # RAB02427      Size 100 uL

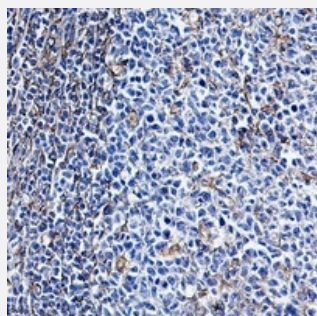
## Applications



### Western Blot (Cell lysate)

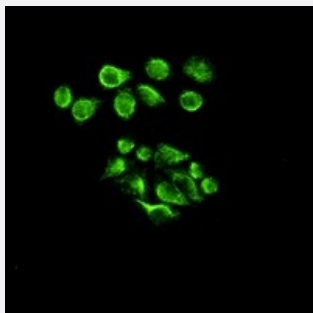
Western blot analysis of Vimentin expression in Lane 1: L6, Lane 2: CHOK1, Lane 2: Hela whole cell lysates with Vimentin recombinant monoclonal antibody (Cat # RAB02427).

### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)



Immunohistochemical analysis of human tonsil formalin fixed paraffin embedded tissue section using Vimentin recombinant monoclonal antibody (Cat # RAB02427). The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.112). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

## Immunofluorescence



Immunofluorescent analysis of HeLa cells with Vimentin recombinant monoclonal antibody (Cat # RAB02427). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

## Specification

<b>Product Description</b>	Rabbit recombinant monoclonal antibody raised against recombinant Vimentin.
<b>Antibody Species</b>	Rabbit
<b>Immunogen</b>	Original antibody is raised against a synthetic peptide of human Vimentin.
<b>Theoretical MW (kDa)</b>	55
<b>Reactivity</b>	Hamster, Human, Mouse, Rat
<b>Specificity</b>	Recognizes endogenous levels of Vimentin protein.
<b>Form</b>	Liquid
<b>Purification</b>	Immunogen affinity chromatography
<b>Isotype</b>	IgG
<b>Recommend Usage</b>	Immunocytochemistry (1:50-1:100) Immunofluorescence (1:50-1:100) Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000)
<b>Storage Buffer</b>	In 50mM Tris-Glycine, pH 7.4 (0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA)
<b>Storage Instruction</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Cell lysate)

Western blot analysis of Vimentin expression in Lane 1: L6, Lane 2: CHOK1, Lane 2: HeLa whole cell lysates with Vimentin recombinant monoclonal antibody (Cat # RAB02427).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of human tonsil formalin fixed paraffin embedded tissue section using Vimentin recombinant monoclonal antibody (Cat # RAB02427). The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.112). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

- Immunocytochemistry

- Immunofluorescence

Immunofluorescent analysis of HeLa cells with Vimentin recombinant monoclonal antibody (Cat # RAB02427). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

## Gene Info — VIM

Entrez GeneID	<a href="#">7431</a>
Protein Accession#	<a href="#">P08670</a>
Gene Name	VIM
Gene Alias	FLJ36605
Gene Description	vimentin
Omim ID	<a href="#">193060</a>
Gene Ontology	<a href="#">Hyperlink</a>

**Gene Summary**

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

**Other Designations**

OTTHUMP00000019224

**Disease**

- [Alzheimer disease](#)
- [Anorexia Nervosa](#)
- [Bulimia](#)
- [Cognition](#)
- [Genetic Predisposition to Disease](#)