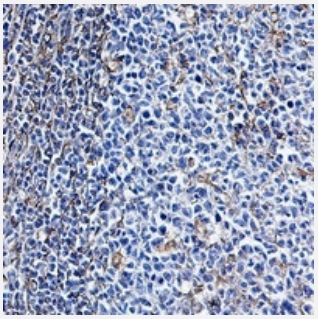
RecomAb™

Vimentin recombinant monoclonal antibody

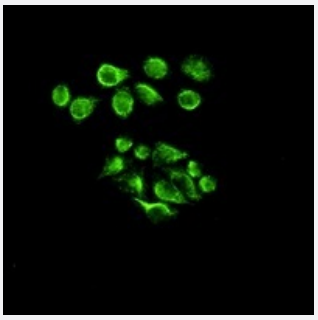
Catalog # RAB02427 Size 100 uL

Applications



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 hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

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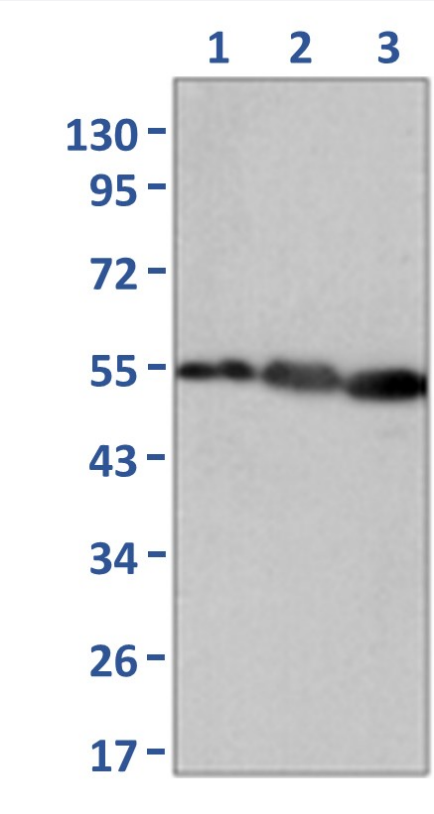

Western Blot (Cell lysate)

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).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against recombinant Vimentin.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide of human Vimentin.
Theoretical MW (kDa)	55
Reactivity	Hamster, Human, Mouse, Rat
Specificity	Recognizes endogenous levels of Vimentin protein.
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Immunogen affinity chromatography
Isotype	IgG

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Recommend Usage	Immunocytochemistry (1:50-1:100) Immunofluorescence (1:50-1:100) Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000)
Storage Buffer	In 50mM Tris-Glycine, pH 7.4 (0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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- Immunocytochemistry

- 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).

Gene Info — VIM

Entrez GeneID	7431
Protein Accession#	P08670
Gene Name	VIM

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Gene Alias	FLJ36605
Gene Description	vimentin
Omim ID	193060
Gene Ontology	Hyperlink
Gene Summary	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 thi s gene is responsible for maintaining cell shape, integrity of the cytoplasm, and stabilizing cytoske letal interactions. It is also involved in the immune response, and controls the transport of low-dens ity lipoprotein (LDL)-derived cholesterol from a lysosome to the site of esterification. It functions a s 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

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