

Anti-Vimentin Rabbit Monoclonal Antibody Catalog # ABO13913

Specification

Anti-Vimentin Rabbit Monoclonal Antibody - Product Information

Application	WB, IHC, IF, ICC, FC
Primary Accession	P08670
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

Description

Anti-Vimentin Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

Anti-Vimentin Rabbit Monoclonal Antibody - Additional Information

Gene ID 7431

Other Names

Vimentin, VIM

Calculated MW

53652 MW KDa

Application Details

WB 1:1000-1:5000
IHC 1:200-1:1000
ICC/IF 1:50-1:200
FC 1:50

Subcellular Localization

Cytoplasm.

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..

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human Vimentin

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for

**up to one month. Avoid repeated
freeze-thaw cycles.**

Anti-Vimentin Rabbit Monoclonal Antibody - Protein Information

Name VIM

Function

Vimentins are class-III intermediate filaments found in various non-epithelial cells, especially mesenchymal cells. Vimentin is attached to the nucleus, endoplasmic reticulum, and mitochondria, either laterally or terminally.

Cellular Location

Cytoplasm. Cytoplasm, cytoskeleton. Nucleus matrix {ECO:0000250|UniProtKB:P31000}. Cell membrane {ECO:0000250|UniProtKB:P20152}

Tissue Location

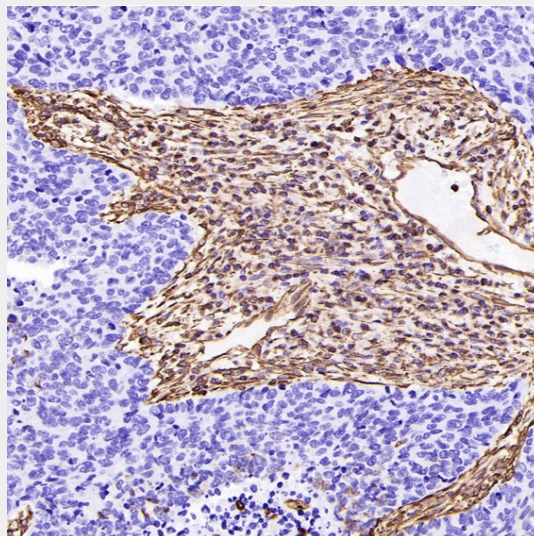
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Anti-Vimentin Rabbit Monoclonal Antibody - Protocols

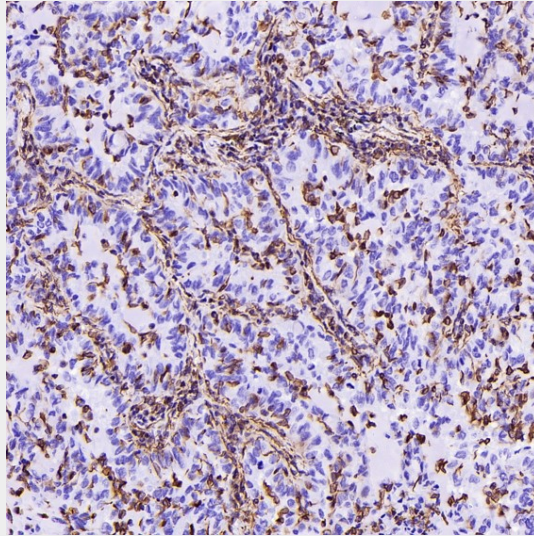
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

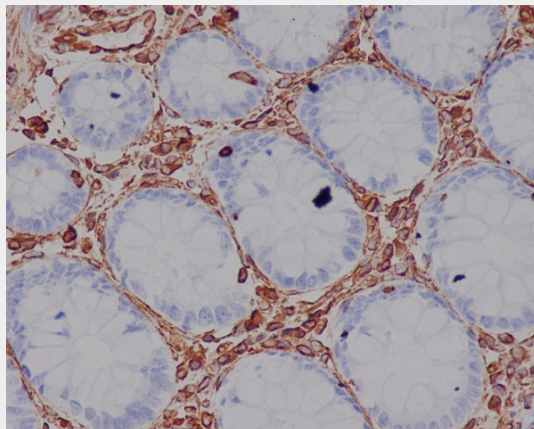
Anti-Vimentin Rabbit Monoclonal Antibody - Images



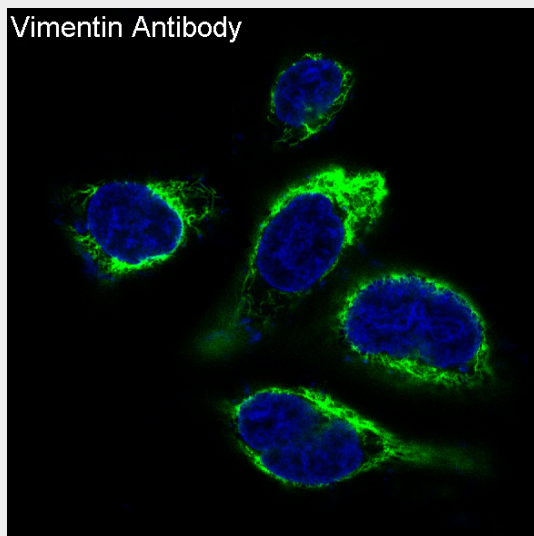
Immunohistochemical analysis of paraffin-embedded Human lung large cell cancer, using the Antibody at 1:1000 dilution.



Immunohistochemical analysis of paraffin-embedded Human lung adenocarcinoma, using the Antibody at 1:1000 dilution.



Immunohistochemical analysis of paraffin-embedded human colon, using Vimentin Antibody.



Immunofluorescent analysis of Hela cells, using Vimentin Antibody.

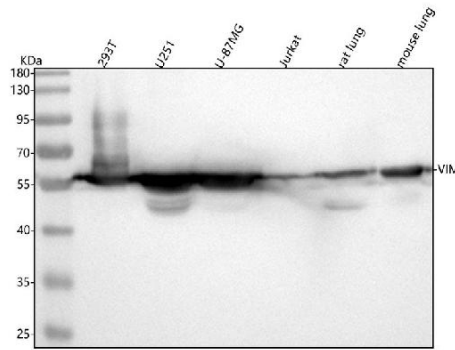


Figure 1. Western blot analysis of Vimentin using anti-Vimentin antibody (M00235-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

- Lane 1: human 293T whole cell lysates,
- Lane 2: human U251 whole cell lysates,
- Lane 3: human U-87MG whole cell lysates,
- Lane 4: human Jurkat whole cell lysates,
- Lane 5: rat lung tissue lysates,
- Lane 6: mouse lung tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Vimentin antigen affinity purified monoclonal antibody (Catalog # M00235-1) at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Vimentin at approximately 54 kDa. The expected band size for Vimentin is at 54 kDa.