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Vimentin Antibody (CT)

Rabbit Polyclonal Antibody

Catalog # ABV11317

Specification

Vimentin Antibody (CT) - Product Information

Application	**IF, IHC**
Primary Accession	P08670
Reactivity	**Human, Mouse, Rat, Hamster, Monkey, Pig, Chicken, Xenopus, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**53652**

Vimentin Antibody (CT) - Additional Information

Gene ID 7431

Positive Control	**Western blot: NCI-H460 cell lysate, IHC: human colon tissue, FACS: HeLa Cells, IF: SY5Y cells.**
Application & Usage	**Western blot: ~1:1000, IHC: 1:10 – 1:50, FACS: 1:10 – 1:50, IF: 1:100.**

Other Names
Vimentin, VIM

Target/Specificity
Vimentin

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
In PBS with 0.09% (W/V) sodium azide.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
Vimentin Antibody (CT) is for research use only and not for use in diagnostic or therapeutic

procedures.

Vimentin Antibody (CT) - 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}

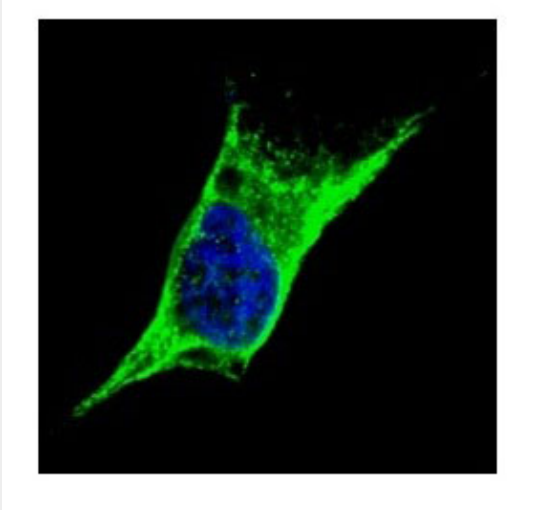
Tissue Location
Highly expressed in fibroblasts, some expression in T- and B-lymphocytes, and little or no expression in Burkitt's lymphoma cell lines. Expressed in many hormone-independent mammary carcinoma cell lines.

Vimentin Antibody (CT) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Vimentin Antibody (CT) - Images



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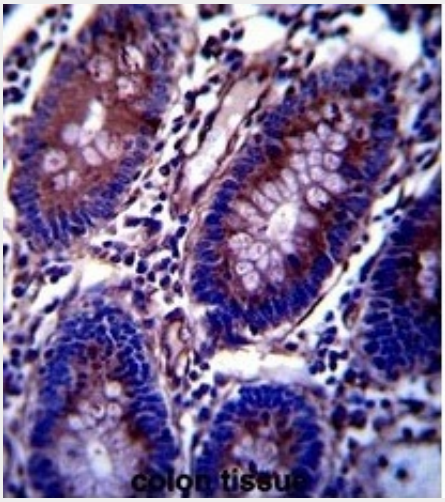
Fluorescent confocal image of SY5Y cells stained with Vimentin (C-term) antibody. Cells were incubated with Vimentin (C-term) antibody (1:100, 2 h at RT). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 µg/ml, 5 min).



Vimentin Antibody (CT) immunohistochemistry analysis in formalin fixed and paraffin embedded human colon tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.

Vimentin Antibody (CT) - Background

Cytoskeletal intermediate filaments (IFs) constitute a diverse group of proteins that are expressed in a highly tissue-specific manner. Intermediate filaments are constructed from two-chain, α-helical, coiled-coil molecules arranged on an imperfect helical lattice and have been widely used as markers for distinguishing individual cell types within a tissue and identifying the origins of metastatic tumors. One such intermediate filament protein, Vimentin, is a general marker of cells originating in the mesenchyme. Vimentin is frequently co-expressed with other members of the intermediate filament family, such as the cytokeratins, in neoplasms including melanoma and breast carcinoma.