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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

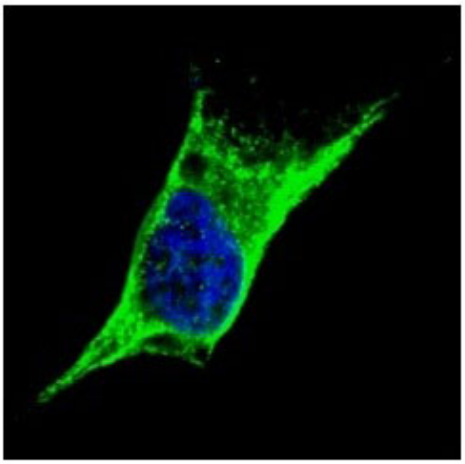
Target/Specificity
Vimentin

Antibody Form
Liquid

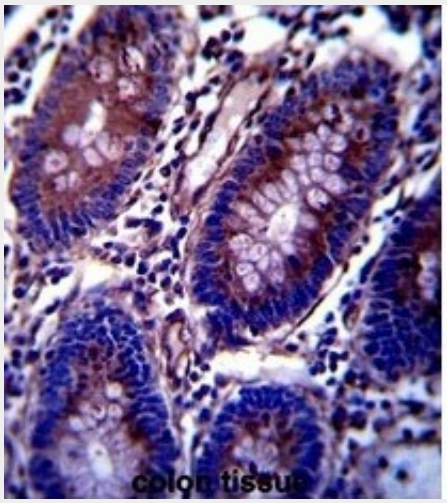
Appearance
Colorless liquid

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

Handling
The antibody solution should be gently



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.

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) - 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.