

**Anti-Vimentin Antibody**

**Our Anti-Vimentin primary antibody from PhosphoSolutions is chicken polyclonal. It detects human, mo**  
**Catalog # AN1605**

**Specification**

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**Anti-Vimentin Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P08670</a>
Reactivity	Bovine
Host	Chicken
Clonality	Polyclonal
Isotype	IgY
Calculated MW	53652

**Anti-Vimentin Antibody - Additional Information**

Gene ID **7431**

**Other Names**

CTRCT30 antibody, Epididymis luminal protein 113 antibody, FLJ36605 antibody, HEL113 antibody, VIM antibody, VIME\_HUMAN antibody, Vimentin antibody

**Target/Specificity**

Vimentin is the major protein subunit of the 10nm or intermediate filaments (IFs) found in many kinds of mesenchymal and epithelial cells as well as developing neuronal and astrocytic precursor cells in the CNS. Vimentin is thought to be critically involved in lymphocyte adhesion and transmigration (Nieminen M et al. 2006). Copolymers are frequently formed between vimentin and other IFs, such as GFAP (in many kinds of astrocytes), desmin (in muscle cells) and neurofilament proteins (in developing neurons). Antibodies to vimentin are useful in studies of stem cells and generally to reveal the filamentous cytoskeleton. Recent studies suggest that vimentin affects prostate cancer cells motility and invasiveness (Zhao et al. 2008).

**Dilution**

WB~~1:1000  
IHC~~1:100~500

**Format**

Total IgY fraction

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Anti-Vimentin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Shipping**

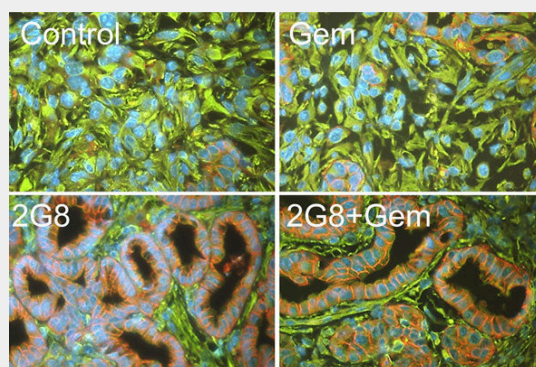
Blue Ice

## Anti-Vimentin Antibody - Protocols

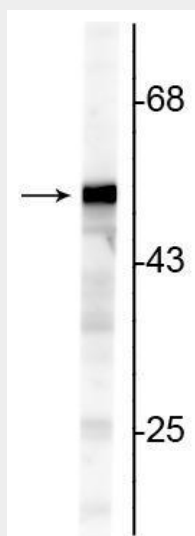
Provided below are standard protocols that you may find useful for product applications.

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

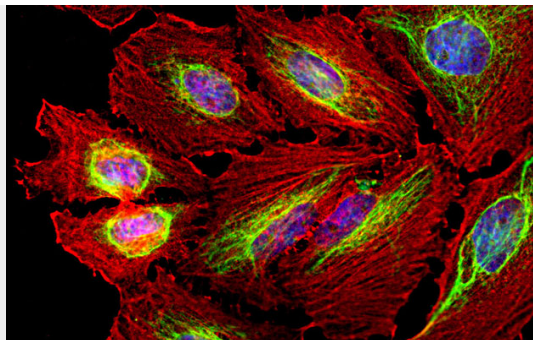
## Anti-Vimentin Antibody - Images



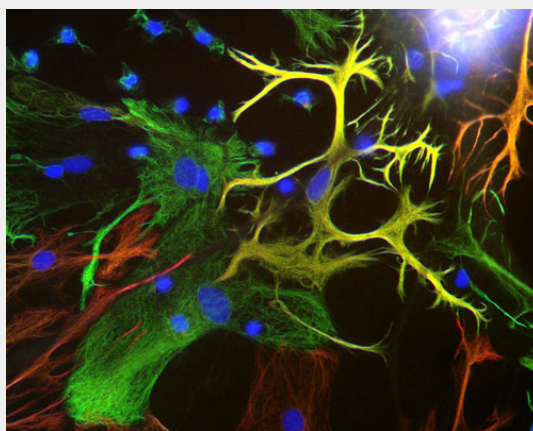
Immunostaining of tumors and precursor PanIN lesions from 4 week old LSL-KrasG12D; Cdkn2alox/lox; p48Cre (KIC) mice that were treated with 2G8 and/or gemcitabine, Gem. (Anti-Vimentin, cat. 2105-VIM, green; Anti-E-cadherin, red). Photo courtesy of Rolf Brekken, University of Texas Southwestern. CC-BY-4.0



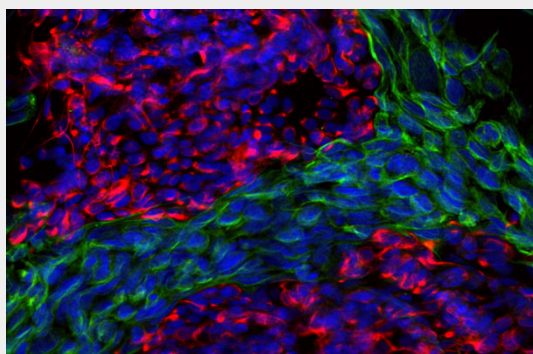
Western blot of NIH 3T3 cell lysate showing specific immunolabeling of the ~50 kDa Vimentin protein.



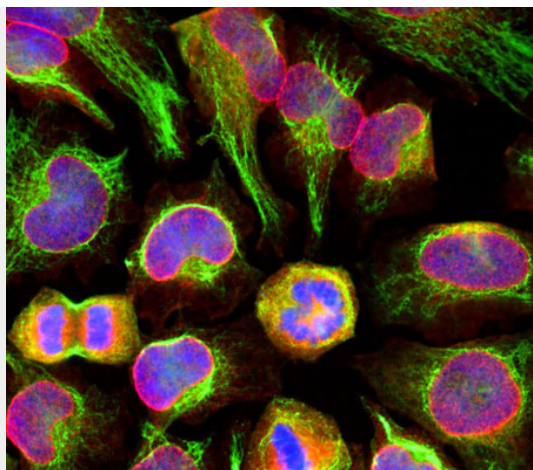
Immunostaining of HeLa cells labelled with anti-vimentin antibody (cat.2105-VIM, 1:10,000, green), anti-actin (red), and DAPI (blue) labelling of nuclear DNA. The vimentin antibody labels the intermediate filament network while the actin antibody labels the submembranous cytoskeleton, stress fibers, and bundles of actin associated with cell adhesion sites.



Immunostaining of mixed neuron/glia cultures stained with anti-Vimentin antibody (cat. 2105-VIM, 1:500, green) and anti-GFAP antibody (cat. 620-GFAP, 1:1000, red). Vimentin is expressed alone in fibroblastic and endothelial cells, which are the flattened cells in the middle of the image which appear green. Astrocytes may express primarily GFAP, or GFAP and vimentin, and so appear red (GFAP only) or golden yellow (GFAP and Vimentin).



Immunofluorescence of mixed fibroblasts and PC12 cells labeled with anti-peripherin (cat. 1630-PER, red, 1:500) and anti-vimentin (cat. 2105-VIM, green, 1:10,000). The blue is Hoechst staining nuclear DNA. Peripherin is labeled in only the PC12 cells cytoplasmic filaments and vimentin is only labeled in the fibroblasts intermediate filaments where peripherin is not present.



Immunolabeling of HeLa cells stained with anti-nuclear pore complex antibody (cat. 1515-NPC, red, 1:100) and rabbit anti-vimentin antibody (cat. 2105-VIM, green, 1:10,000). The blue is DAPI staining nuclear DNA. The anti-nuclear pore complex antibody reveals strong granular labeling of the nuclei corresponding to the protein. The anti-vimentin antibody specifically labels intermediate filaments.

#### **Anti-Vimentin Antibody - Background**

Vimentin is the major protein subunit of the 10nm or intermediate filaments (IFs) found in many kinds of mesenchymal and epithelial cells as well as developing neuronal and astrocytic precursor cells in the CNS. Vimentin is thought to be critically involved in lymphocyte adhesion and transmigration (Nieminen M et al. 2006). Copolymers are frequently formed between vimentin and other IFs, such as GFAP (in many kinds of astrocytes), desmin (in muscle cells) and neurofilament proteins (in developing neurons). Antibodies to vimentin are useful in studies of stem cells and generally to reveal the filamentous cytoskeleton. Recent studies suggest that vimentin affects prostate cancer cells motility and invasiveness (Zhao et al. 2008).