

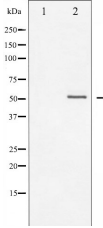
## Phospho-Vimentin (Ser56) Ab

Cat.#: AF3131  
Size: 100ul,200ul

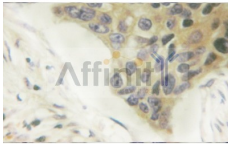
Concn.: 1mg/ml  
Source: Rabbit

Mol.Wt.: 54kDa  
Clonality: Polyclonal

|                               |                                                                                                                                                                                                                                                                                     |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application:                  | WB 1:500-1:2000 IHC 1:50-1:200, IF/ICC 1:100-1:500                                                                                                                                                                                                                                  |
| Reactivity:                   | Human                                                                                                                                                                                                                                                                               |
| Purification:                 | The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.                                                                                                                                   |
| Specificity:                  | Phospho-Vimentin (Ser56) Ab detects endogenous levels of Vimentin only when phosphorylated at Serine 56                                                                                                                                                                             |
| Immunogen:                    | A synthesized peptide derived from human Vimentin around the phosphorylation site of Serine 56                                                                                                                                                                                      |
| Uniprot:                      | P08670                                                                                                                                                                                                                                                                              |
| Description:                  | VIM is an intermediate filament protein. Intermediate filament proteins are expressed in a tissue-specific manner. Desmin is the subunit specific for muscle and vimentin the subunit specific for mesenchymal tissue.                                                              |
| Subcellular Location:         | 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.                                                                         |
| Similarity:                   | The central alpha-helical coiled-coil IF rod domain mediates elementary homodimerization. The [IL]-x-C-x-x-[DE] motif is a proposed target motif for cysteine S-nitrosylation mediated by the iNOS-S100A8/A9 transnitrosylase complex. Belongs to the intermediate filament family. |
| Storage Condition and Buffer: | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt                                                                                                                       |



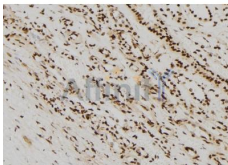
Western blot analysis of Vimentin phosphorylation expression in Nocodazole treated A549 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



AF3131 at 1/100 staining human breast carcinoma tissues sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 ho



AF3131 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.



AF3131 at 1/100 staining Human kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.

**IMPORTANT:** For western blot, incubate membrane with diluted Ab in 5% w/v milk, 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.

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