Phospho-Vimentin (Ser56) Ab

Cat.#: AF3131 Concn.: 1mg/ml Mol.Wt.: 54kDa Size: 100ul,200ul Source: Rabbit 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

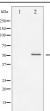
Buffer:

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.



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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 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.



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.

<code>IMPORTANT:</code> For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1% TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

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