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Vimentin Polyclonal Antibody

Catalog number: 10366-1-AP

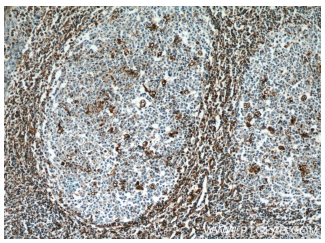
Size: 20 µg/150 µl

Source: Rabbit

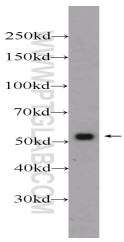
Isotype: IgG

Synonyms:

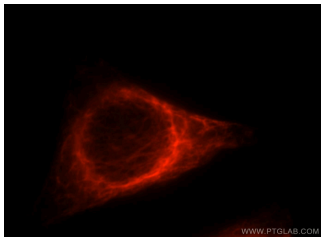
VIM; VIM, vimentin



Immunohistochemical of paraffin-embedded human tonsillitis using 10366-1-AP(VIM antibody) at dilution of 1:50 (under 10x lens)



NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 10366-1-AP(VIM antibody) at dilution of 1:2000



Immunofluorescent analysis of HepG2 cells, using VIM antibody 10366-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).

Background

Vimentin, also named as VIM, belongs to the intermediate filament family. Vimentin is class-III intermediate filaments found in various non-epithelial cells, especially mesenchymal cells. Vimentin is important for stabilizing the architecture of the cytoplasm. Monocyte-derived macrophages secrete vimentin into the extracellular space in vitro. Secretion of vimentin was enhanced by the proinflammatory cytokine tumor necrosis factor-alpha (TNFA; 191160) and inhibited by the antiinflammatory cytokine IL10 (124092), suggesting that vimentin is involved in the immune response. Vimentin has specialized functions that contribute to specific dynamic cellular processes. As a phosphoprotein, 55-60 kDa of vimentin proteins can be observed due to the different phosphorylation level.

Applications

Tested applications:	**ELISA, IF, IHC, WB, FC**
Cited applications:	**IF, IHC, WB**
Species specificity:	**Human,Mouse,Rat; other species not tested.**
Cited species:	**Human, mouse, rat**
Calculated Vimentin MW:	**466aa,54 kDa**
Observed Vimentin MW:	**54 kDa**
Positive WB detected in	**NIH/3T3 cells, A549 cells, HeLa cells, Jurkat cells, mouse heart tissue, Raji cells, rat heart tissue**
Positive IHC detected in	**Human tonsillitis tissue, human cervical cancer tissue, human colon tissue, human endometrial cancer tissue, human gliomas tissue, human liver tissue, human lung cancer tissue, human lymphoma tissue, human meningioma tissue, human ovary tumor tissue, human renal cell carcinoma tissue**
Positive IF detected in	**HepG2 cells**
Positive FC detected in	**HeLa cells**
Recommended dilution:	**WB: 1:1000-1:10000** **IHC: 1:20-1:200** **IF: 1:10-1:100** **FC: N/A**

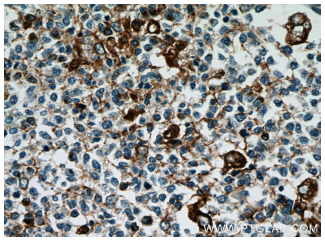
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

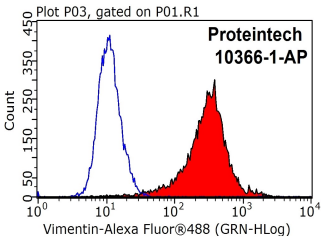
Immunogen:	**Ag0489**
GenBank accession number:	**BC000163**
Gene ID (NCBI):	**7431**
Full name:	**Vimentin**

Product information

Purification method:	**Antigen affinity purification**
Storage:	**PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.**



Immunohistochemical of paraffin-embedded human tonsillitis using 10366-1-AP(VIM antibody) at dilution of 1:50 (under 40x lens)



1X10^6 HeLa cells were stained with 0.2ug Vimentin antibody (10366-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.