

Product overview

product name	Anti Vimentin polyclonal antibody
catalog No.	ATP006
Category	Primary antibody
Host	Rabbit
Species specificity	Human, other species was not test
Tested applications	WB: 1:2000~1:8000, ICC: 1:50~200, IHC: 1:50~100
Clonality	Polyclonal
Conjugation	Unconjugated
Immunogen	Recombinant protein of human Vimentin (Met1-Glu466).
Alternative Names	CTRCT30, Epididymis luminal protein 113, FLJ36605, HEL113, VIM, VIME, Vimentin
Uniprot ID	P08670

Product performance

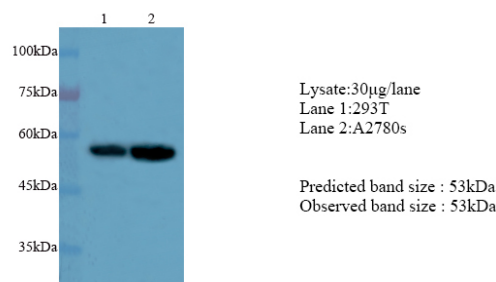
Form	Liquid
Buffer	PBS, pH 7.4, containing 0.05% proclin300, 50% glycerol.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 4°C for frequent use. Store at -20 to -80 °C for twelve months from the date of receipt.
Concentration	0.57mg/ml
Isotype	IgG
MW	54kDa
Purity	Antigen affinity purification

Dilution range

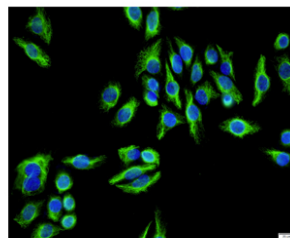
WB, ICC, IHC

Product experiment picture

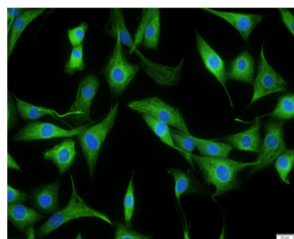




Various lysates were subjected to SDS PAGE followed by western blot with Vimentin antibody at dilution of 1:4000.



Immunofluorescent analysis of HepG2 cells using Vimentin antibody at dilution of 1:50 and Alexa Fluor-488 conjugated Affinipure Goat anti rabbit IgG(H+L).



Immunofluorescent analysis of NIH/3T3 cells using Vimentin antibody at dilution of 1:50 and Alexa Fluor-488 conjugated Affinipure Goat anti rabbit IgG(H+L).

Reference

PMID: 21746880 ;PMID: 21465480 ;PMID: 8601315

Product 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. Isoforms of vimentin (49 kDa and 60 kDa) had also been reported. (PMID: 8640945, 22728585).