Elabscience®

Human VIM Antibody Pair Set

Catalog No.	E-KAB-0126	Applications	ELISA
Synonyms	VIM, FLJ36605		

Kit components & Storage

Title	Specifications	Storage
Human VIM Capture Antibody	1 vial, 100 µ g	Store at -20° C for one year.
		Avoid freeze / thaw cycles.
Human VIM Detection Antibody (Biotin)	1 vial, 50 μL	Store at -20°C for one year.
		Avoid freeze / thaw cycles.

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0126)		
		Human VIM Capture Antibody	Human VIM Detection Antibody (Biotin)	
Immunogen	Immunogen	Recombinant Human VIM protein	Recombinant Human VIM protein	
Information	Swissprot	P08670		
Product details	Reactivity	Human	Human	
	Host	Mouse	Goat	
	Conjugation	Unconjugated	Biotin	
	Concentration	0.5mg/mL	/	
	Buffer	PBS with 0.04% Proclin 300, 50%	PBS with 0.04% Proclin 300, 1%	
		glycerol, pH 7.4	protective protein, 50% glycerol, pH	
			7.4	
	Purify	Protein A or G	Antigen Affinity	
	Specificity	Detects Human VIM in ELISAs.		

For Research Use Only

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Applications

Human VIM Sandwich ELISA Assay:

Recommended	Reagent	Images
Concentration/Dilution		
0.5-4µg/mL	Human VIM Capture Antibody	
		10 Age 1
1:1000-1:10000	Human VIM Detection Antibody	Optical Density
	(Biotin)	0 0.1
		0.01 10 100 10000 10000 Human VIM concentration(ng/mL)
	Concentration/Dilution 0.5-4µg/mL	Concentration/Dilution 0.5-4µg/mL Human VIM Capture Antibody 1:1000-1:10000 Human VIM Detection Antibody

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

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.