

Product datasheet for EA200025

Human Vimentin (VIM) ELISA Kit 1 x 96

Product data:

Product Type:	ELISA Kits
Description:	Human Vimentin (VIM) ELISA Kit 1 x 96
Size:	1 x 96 wells
Format:	8x12 divisible strips
Assay Type:	Sandwich
Assay Length:	4 hours incubations; 30min washing and analyzing samples
Signal:	Colorimetric
Curve Range:	0.156ng/ml-10ng/ml
Sample Type:	Human serum, plasma and other biological fluids
Sample Volume:	100µl
Specificity:	This kit is used for quantitative detection of Human Vimentin
Sensitivity:	47pg/ml
Reactivity:	Human
Cross Reactivity:	There is no detectable cross-reactivity with other relevant proteins.
Interference:	No significant interference observed with available related molecules.
Components:	<ul style="list-style-type: none">• VIM Antibody Coated 96-well Plate in foil pouch with desiccant 1 plate• Recombinant HumanVIM Standard (500ng/ml) 0.1 mL• 100x Biotinylated Human VIM Detection Antibody 0.12 mL• 100x Peroxidase Conjugate 0.12 mL Assay Buffer 30 mL• Standard Diluent 10 mL Sample Diluent 20 mL Wash Buffer Concentrate 20X 60 mL• TMB Substrate 12 mL• Stop Solution 12 mL



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Background:

Vimentin (VIM) is a structural protein that in humans is encoded by the VIM gene. A vimentin monomer has a central α -helical domain, capped on each end by non-helical amino (head) and carboxyl (tail) domains. Two monomers are likely co-translationally expressed in a way that facilitates their formation of a coiled-coil dimer, which is the basic subunit of vimentin assembly. It is a type III intermediate filament (IF) protein that is expressed in mesenchymal cells. Intermediate filaments, along with tubulin-based microtubules and actin-based microfilaments, comprises the cytoskeleton. Vimentin is responsible for maintaining cell shape, integrity of the cytoplasm, and stabilizing cytoskeletal interactions. Since vimentin is the major cytoskeletal component of mesenchymal cells, it is often used as a marker of mesenchymally-derived cells or cells undergoing an epithelial-to-mesenchymal transition during both normal development and metastatic progression. Vimentin has been used as an immunohistochemical tumor marker of sarcoma, renal cell carcinoma, endometrial cancer, lung carcinoma, lymphoma, leukemia, and melanoma.

Gene Symbol:

VIM

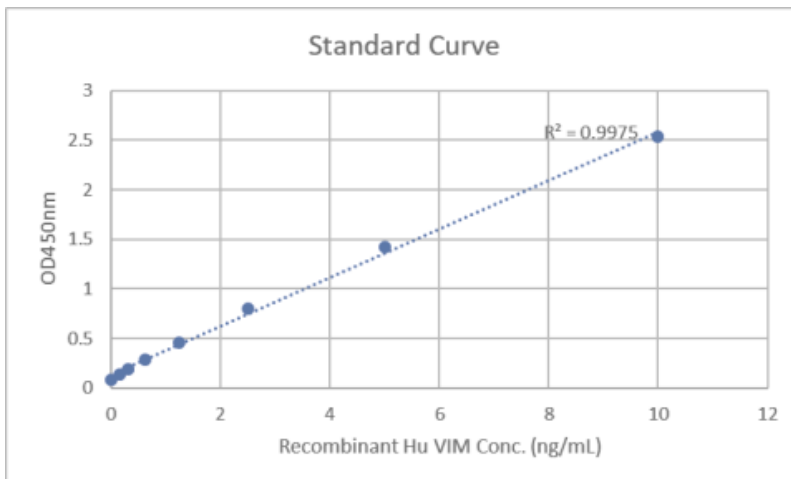
Gene ID:

7431

Standard Curve:

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Data image of Vimentin (VIM) ELISA Kit.

Product images:

Data image of Vimentin (VIM) ELISA Kit.