Recombinant Human VIM protein, His-tagged

Cat. No. VIM-250H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human VIM fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Vimentin, also know as VIM. It is the major subunit protein of the intermediate filaments of mesenchymal cells. It is believed to be involved with the intracellular transport of proteins between the nucleus and plasma membrane. Vimentin has been implicated to be involved in the rate of steroid synthesis via its role as a storage network for steroidogenic cholesterol containing lipid droplets. Vimentin phosphorylation by a protein kinase causes the breakdown of intermediate filaments and activation of an ATP and myosin light chain dependent contractile event. This results in cytoskeletal changes that facilitate the interaction of the lipid droplets within mitochondria, and subsequent transport of cholesterol to the organelles leading to an increase in steroid synthesis. Immunohistochemical staining for Vimentin is characteristic of sarcomas (of neural, muscle and fibroblast origin) compared to carcinomas which are generally negative. Melanomas, lymphomas and vascular tumors may all stain for Vimentin. Vimentin antibodies are thus of value in the differential diagnosis of undifferentiated neoplasms and malignant tumors. They are generally used with a panel of other antibodies including those recognising cytokeratins, lymphoid markers, S100, desmin and neurofilaments.
Form	Lyophilized from sterile PBS, pH 7.4

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Purity	> 95 % as determined by SDS-PAGE
Storage	Store at -70 centigrade. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	VIM vimentin [Homo sapiens]
Official Symbol	VIM
Synonyms	VIM; vimentin; FLJ36605;
Gene ID	7431
mRNA Refseq	NM_003380
Protein Refseq	NP_003371
UniProt ID	P08670
Chromosome Location	10p13
Pathway	Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptotic cleavage of cellular proteins, organism-specific biosystem; Apoptotic executionphase, organism-specific biosystem; Aurora B signaling, organism-specific biosystem; Caspase cascade in apoptosis, organism-specific biosystem; Caspase-mediated cleavage of cytoskeletal proteins, organism-specific biosystem;
Function	identical protein binding; protein C-terminus binding; protein binding; structural

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	constituent of cytoskeleton;

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