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Product datasheet for SM3129R

Vimentin (VIM) Mouse Monoclonal Antibody [Clone ID: VI-RE/1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	VI-RE/1
Applications:	FC
Recommended Dilution:	Flow cytometry: Recommended dilution: 1-5 µg/ml. Intracellular staining.
Reactivity:	Human
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Bacterially expressed full-length Human Vimentin
Specificity:	The antibody VI-RE/1 reacts with vimentin.
Formulation:	Phosphate buffered saline (PBS) containing 15 mM Sodium Azide and 0.2% (w/v) high-grade protease free BSA as a stabilizing agent. Label: PE State: Liquid purified Ig fraction Label: Conjugated with R-Phycoerythrin under optimum conditions. The conjugate is purified by size-exclusion chromatography
Concentration:	lot specific
Purification:	Size-Exclusion Chromatography.
Conjugation:	PE
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	vimentin
Database Link:	<u>Entrez Gene 7431 Human</u> <u>P08670</u>



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	Vimentin (VIM) Mouse Monoclonal Antibody [Clone ID: VI-RE/1] – SM3129R
Background:	 Vimentin (57 kDa) is the most ubiquituos intermediate filament protein and the first to be expressed during cell differentiation. All primitive cell types express vimentin but in most non-mesenchymal cells it is replaced by other intermediate filament proteins during differentiation. Vimentin is expressed in a wide variety of mesenchymal cell types - fibroblasts, endothelial cells etc., and in a number of other cell types derived from mesoderm, e.g., mesothelium and ovarian granulosa cells. In non-vascular smooth muscle cellsand striated muscle, vimentin is often replaced by desmin, however, during regeneration, vimentin is reexpressed. Cells of the lymfo-haemopoietic system (lymphocytes, macrophages etc.) also express vimentin, sometimes in scarce amounts. Vimentin is also found in mesoderm derived epithelia, e.g. kidney (Bowman capsule), endometrium and ovary (surface epithelium), in myoepithelial cells (breast, salivary and sweat glands), an in thyroid gland epithelium. In these cell types, as in mesothelial cells vimentin is coexpressed with cytokeratin. Furthermore, vimentin is detected in many cells from the neural crest. Particularly melanocytes express abundant vimentin. In glial cells vimentin is coexpressed with glial filament acidic protein (GFAP). Vimentin is present in many different neoplasms but is particulary expressed in those originated from mesenchymal cells. Sarcomas e.g., fibrosarcoma, malignt fibrous histiocytoma, angiosarcoma, and leio- and rhabdomyosarcoma, as well as lymphomas, malignant melanoma and schwannoma, are virtually always vimentin. Also thyroid carcinomas are vimentin positive. Any low differentiated carcinoma and adenocarcinomas from endometrium and ovary usually express vimentin. Also thyroid carcinomas are vimentin positive. Any low differentiated carcinoma may express some vimentin. Vimentin is frequently included in the so-called primary panel (together with CD45, cytokeratin, and 5-100 protein). Intense staining reacti
Synonyms:	VIM

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Product images:



Intracellular flow cytometry analysis of Vimentin expression in LEP-19 human fibroblast cell line using anti-human Vimentin (VI-RE/1) PE. Overlay with Isotype mouse IgG1 control.

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