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Datasheet for ABIN94494 anti-Vimentin antibody

4 Images

1 Publication



Overview

Quantity:	0.1 mg
Target:	Vimentin (VIM)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Vimentin antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin- embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Immunogen:	Bacterially expressed full-length human vimentin
Clone:	VI-RE-1
lsotype:	lgG1
Specificity:	The antibody VI-RE/1 reacts with human vimentin, a 57 kDa intermediate filament intracellular protein expressed on a wide variety of mesenchymal and mesodermal cell types.
No Cross-Reactivity:	Mouse, Pig
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

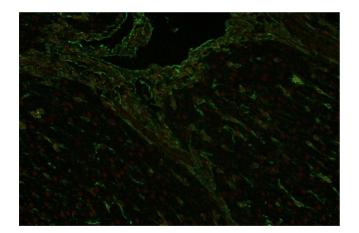
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Target:	Vimentin (VIM)
Alternative Name:	Vimentin (VIM Products)
Background:	Vimentin,Vimentin (57 kDa) is the most ubiquituos intermediate filament protein and the first to
	be expressed during cell differentiation. All primitive cell types express 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 Fibrillary 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 positive. Mesoderm derived carcinomas like
	renal cell carcinoma, adrenal cortical 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 S-100 protein). Intense staining
	reaction for vimentin without coexpression of other intermediate filament proteins is strongly
	suggestive of a mesenchymal tumour or malignant melanoma.
Gene ID:	7431
UniProt:	P08670
Pathways:	Caspase Cascade in Apoptosis
Application Details	
Application Notes:	ELISA: The antibody VI-RE/1 recognizes different epitope on human vimentin than the antibody
	VI-01 (IgM).

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Application Details	
	Flow cytometry: Recommended dilution: 1-4 μ g/mL. Intracellular staining.
	Western blotting: Recommended dilution: 1-2 µg/mL.
	Immunocytochemistry: Recommended dilution: 5-10 µg/mL.
Restrictions:	For Research Use only
Handling	
Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.
Publications	
Product cited in:	Chen, Chang, Wu, Li, Yang, Chen, Hsu, Chen, Wu, Lee, Huang, Goan, Chou, Huang, Wu: "
	Molecular characterization of invasive subpopulations from an esophageal squamous cell
	carcinoma cell line." in: Anticancer research, Vol. 30, Issue 3, pp. 727-36, (2010) (PubMed).

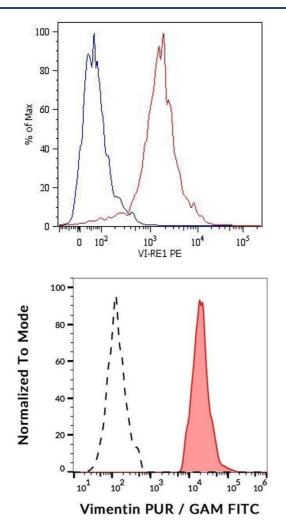
Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry staining (paraffin sections) of vimentin in human liver using mouse monoclonal antibody VI-RE/1 ((ABIN94494), diluted 1:400), detected with GAM IgG-Alexa Fluor488 (diluted 1:200, green), cell nuclei stained with PI (1 µg/mL, orange).

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Flow Cytometry

Image 2. Intracellular Flow Cytometry analysis 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 (PPV-06

Flow Cytometry

Image 3. Intracellular flow cytometry analysis of vimentin expression in ESS-1 cells using anti-human vimentin (VI-RE/1) purified, GAM-FITC. Negative control: human lymphocytes.

Please check the product details page for more images. Overall 4 images are available for ABIN94494.