.-online.com antibodies

Datasheet for ABIN94492 anti-Vimentin antibody

6 Images

1 Publication



Overview

Quantity:	0.1 mg
Target:	Vimentin (VIM)
Reactivity:	Human, Mouse, Rat, Pig, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Vimentin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunoprecipitation (IP)

Product Details

Clone:	VI-10			
Isotype:	lgM			
Specificity:	The antibody VI-10 reacts with vimentin, a 57 kDa intermediate filament intracellular prot expressed in variety of mesenchymal and mesodermal cell types.			
Cross-Reactivity (Details):	Mouse, Other not tested, Human, Rat, Chicken, Porcine			
Purification:	Purified by sequential steps of physicochemical fractionation (differential precipitation and solid-phase chromatography methods).			
Purity:	> 95 % (by SDS-PAGE)			
Tannat Dataila				

Target Details

Target:

Vimentin (VIM)

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN94492 | 03/06/2024 | Copyright antibodies-online. All rights reserved.

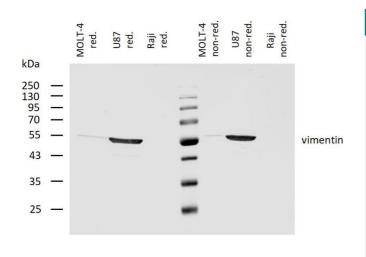
Target Details	
Alternative Name:	Vimentin (VIM Products)
Background:	Vimentin,Vimentin (57 kDa) is the most ubiquituos intermediate filament protein and the first to
	be expressed during cell differentiation. All primitive cell types express vimentin but in most
	non-mesenchymal cells it is replaced 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:	Immunocytochemistry: Staining technique: (a) fix cells for 10 min in methanol at -20 °C and for
	6 min in acetone at -20 °C, (b) fix cells directly in methanol for 10 min at -20 °C or in acetone for
	10 min at -20 °C. Positive control: 3T3 murine Swiss albino fibroblast cell line, RBL rat

basophilic leukemia cell line.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN94492 | 03/06/2024 | Copyright antibodies-online. All rights reserved.

Application Details	
	Immunohistochemistry (paraffin sections): Recommended dilution: 5 µg/mL, positive tissue:
	skin fibroblast.
	Western blotting: Recommended dilution: 1-2 µg/mL.
Restrictions:	For Research Use only
Handling	
Concentration:	1 mg/mL
Buffer:	Tris buffered saline (TBS), pH 8.0, 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:	Dráberová, Zíková, Dráber: "Monoclonal antibody VI-10 specific for vimentin." in: Folia biologica,
	Vol. 45, Issue 1, pp. 35-6, (2000) (PubMed).

Images



Western Blotting

Image 1. Western blotting analysis of human vimentin using mouse monoclonal antibody VI-10 on lysates of MOLT-4 cell line (low expression), U87 cell line (positive) and Raji cell line (negative control) under non-reducing and reducing conditions. Nitrocellulose membrane was probed with 2 μ g/mL of mouse anti-vimentin monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. A specific band was detected for vimentin at approximately 55 kDa.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN94492 | 03/06/2024 | Copyright antibodies-online. All rights reserved.

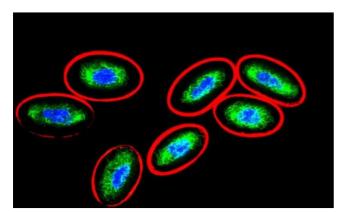
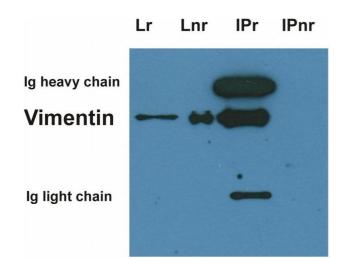


Image	2.	Immunofluorescence	staining	(chicken
erythroc			Jan J	(



Immunoprecipitation

Image 3. Immunoprecipitation of vimentin from HeLa cell lysate by antibody VI-10

Please check the product details page for more images. Overall 6 images are available for ABIN94492.