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Vimentin (D21H3) XP[®] Rabbit mAb (Alexa Fluor[®] 647 Conjugate)



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: Reacti IHC-P, IF-IC, FC-FP H M R H		Source/Isotype: Rabbit IgG	UniProt ID: #P08670	Entrez-Gene Id: 7431
Product Usage Information	Application Immunohistochemistry Immunofluorescence (I Flow Cytometry (Fixed	Immunocytochemistry)	Dilutio 1:100 1:200 1:50	on - 1:400
Storage	antibody. Protect from li	5	-	
Specificity / Sensitivity	vimentin (D21H3) XP® vimentin protein.	Rabbit mAb (Alexa Fluor [®] 647 Co	njugate) detects endogenous le	vels of total
Source / Purification	residues surrounding Ar under optimal conditions	produced by immunizing animals rg45 of human vimentin protein. T is with an F/P ratio of 2-6. The Alex le laser). Antibody conjugates of th with a peak at 665 nm.	his antibody was conjugated to a kar Fluor® 647 dye is maximally (Alexa Fluor [®] 647 excited by red
Product Description		hnology antibody is conjugated to a same species cross-reactivity as t		
Background	filaments, and microtuble expression: cytokeratins visceral, and certain vas (neurons). GFAP and vi shape (1). In particular, filaments are characteri a marker for intracranial that vimentin is present with that of other marke spatial re-organization in (4). Phosphorylation of vimentin filaments in res is important during lymp During mitosis, CDK1 p for vimentin-PLK interact memory phosphorylatio studies using various so Akt1 enhances cell mign	The cytoskeleton consists of three types of cytosolic fibers: microfilaments (actin filaments), intermediate filaments, and microtubules. Major types of intermediate filaments are distinguished by their cell-specific expression: cytokeratins (epithelial cells), glial fibrillary acidic protein (GFAP) (glial cells), desmin (skeletal, visceral, and certain vascular smooth muscle cells), vimentin (mesenchyme origin), and neurofilaments (neurons). GFAP and vimentin form intermediate filaments in astroglial cells and modulate their motility and shape (1). In particular, vimentin filaments are present at early developmental stages, while GFAP illaments are characteristic of differentiated and mature brain astrocytes. Thus, GFAP is commonly used as a marker for intracranial and intraspinal tumors arising from astrocytes (2). Research studies have shown that of other markers to distinguish between the two (3). Vimentin's dynamic structural changes and spatial re-organization in response to extracellular stimuli help to coordinate various signaling pathways (4). Phosphorylation of vimentin at Ser56 in smooth muscle cells regulates the structural arrangement of <i>v</i> imentin filaments in response to serotonin (5,6). Remodeling of vimentin and other intermediate filaments is important during lymphocyte adhesion and migration through the endothelium (7).		
Background References	tissue sarcoma targeted therapy (10,11). kground References 1. Eng, L.F. et al. (2000) Neurochem Res 25, 1439-51. 2. Goebel, H.H. et al. (1987) Acta Histochem Suppl 34, 81-93. 3. Leader, M. et al. (1987) Histopathology 11, 63-72. 4. Helfand, B.T. et al. (2004) J Cell Sci 117, 133-41. 5. Tang, D.D. et al. (2005) Biochem J 388, 773-83. 6. Fornina, I.G. et al. (1990) Klin Med (Mosk) 68, 125-7. 7. Nieminen, M. et al. (2006) Nat Cell Biol 8, 156-62. 8. Yamaguchi, T. et al. (2005) J Cell Biol 171, 431-6.			

	9. Oguri, T. et al. (2006) <i>Genes Cells</i> 11, 531-40. 10. Zhu, Q.S. et al. (2011) <i>Oncogene</i> 30, 457-70. 11. Xue, G. and Hemmings, B.A. (2013) <i>J Natl Cancer Inst</i> 105, 393-404.			
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).			
Applications Key	IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)			
Cross-Reactivity Key	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected 			
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