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Vimentin (D21H3) XP[®] Rabbit mAb (Alexa Fluor[®] 594 Conjugate)

Applications: IF-IC, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P08670	Entrez-Gene Id: 7431
Product Usage	1	Application			Dilution
Information	I	Immunofluorescence	(Immunocytochemistry)		1:50
	I	Flow Cytometry (Fixed	d/Permeabilized)		1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.			
Specificity / Sensiti	· · · ·	Vimentin (D21H3) XP [®] Rabbit mAb (Alexa Fluor [®] 594 Conjugate) recognizes endogenous levels of total vimentin protein.			
Source / Purificatio		-	produced by immunizing animals with rg45 of human vimentin protein.	a synthetic peptide corres	ponding to
Product Description	h	nouse for direct immun	hnology antibody is conjugated to Alex ofluorescent analysis in human cells. y as the unconjugated Vimentin (D21H	The antibody is expected to	exhibit the same
Background	fii e vi (r si fii a th w s (4 vi s fc fc e e	ilaments, and microtul expression: cytokeratin visceral, and certain va neurons). GFAP and v shape (1). In particular, ilaments are character a marker for intracrania hat vimentin is present vith that of other marker spatial re-organization 4). Phosphorylation of vimentin filaments in re- s important during lym During mitosis, CDK1 p or vimentin-PLK intera phosphorylation site ar using various soft-tissue	ists of three types of cytosolic fibers: n pules. Major types of intermediate filan is (epithelial cells), glial fibrillary acidic ascular smooth muscle cells), vimentin vimentin form intermediate filaments in , vimentin filaments are present at earl ristic of differentiated and mature brain al and intraspinal tumors arising from a t in sarcomas, but not carcinomas, and ers to distinguish between the two (3). in response to extracellular stimuli hel vimentin at Ser56 in smooth muscle of esponse to serotonin (5,6). Remodeling phocyte adhesion and migration throu obosphorylates vimentin at Ser56. This action. PLK further phosphorylates vim and play a regulatory role in vimentin fila te sarcoma cells have shown that phos n and survival, suggesting that vimenti apy (10,11).	nents are distinguished by the protein (GFAP) (glial cells), (mesenchyme origin), and astroglial cells and modula by developmental stages, where astrocytes (2). Research students (2). Research students astrocytes (2). Research students (2). Research s	heir cell-specific , desmin (skeletal, neurofilaments te their motility and hile GFAP commonly used as idies have shown d in conjunction ral changes and haling pathways arrangement of rmediate filaments a PLK binding site serve as memory dditionally, studies Ser39 by Akt1
Background Refere	2 3 4 5 6 7 8 9 10	2. Goebel, H.H. et al. (2 3. Leader, M. et al. (19 4. Helfand, B.T. et al. (20 5. Tang, D.D. et al. (20 6. Fomina, I.G. et al. (1 7. Nieminen, M. et al. (20 8. Yamaguchi, T. et al. 9. Oguri, T. et al. (2006 9. Zhu, Q.S. et al. (201	 Neurochem Res 25, 1439-51. 1987) Acta Histochem Suppl 34, 81-93 87) Histopathology 11, 63-72. 2004) J Cell Sci 117, 133-41. 05) Biochem J 388, 773-83. 990) Klin Med (Mosk) 68, 125-7. 2006) Nat Cell Biol 8, 156-62. (2005) J Cell Biol 171, 431-6.) Genes Cells 11, 531-40. 1) Oncogene 30, 457-70. ngs, B.A. (2013) J Natl Cancer Inst 105 		

1/14/24, 11:31 AM	/imentin (D21H3) XP® Rabbit mAb (Alexa Fluor® 594 Conjugate) (#7675) Datasheet Without Images C
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Ke	 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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