Revision 4 Vimentin (D21H3) XP [®] Rabbit mAb (Alexa Fluor [®] 555 Conjugate)	C	ell Signaling
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Applications: IHC-P, IF-IC	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P08670	Entrez-Gene Id: 7431
Product Usage Information		Application Immunohistochemistry Immunofluorescence (Ir			Dilution 1:50 - 1:200 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 th antibody. Protect from light. Do not freeze.			
Specificity/Sensiti	vity	Vimentin (D21H3) XP [®] Rabbit mAb (Alexa Fluor [®] 555 Conjugate) detects endogenous levels of total vimentin protein.			
Source / Purificati	on	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg45 of human vimentin protein.			
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 555 fluorescent dye. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Vimentin (D21H3) XP [®] Rabbit mAb #5741.			
Background		intermediate filaments, their cell-specific express cells), desmin (skeletal, vorigin), and neurofilame cells and modulate their developmental stages, vastrocytes. Thus, GFAP is from astrocytes (2). Rese carcinomas, and its expr between the two (3). Vin extracellular stimuli help Ser56 in smooth muscle serotonin (5,6). Remodel	sion: cytokeratins (epithe visceral, and certain vascu nts (neurons). GFAP and motility and shape (1). Ir vhile GFAP filaments are s commonly used as a ma earch studies have showr ession is examined in co nentin's dynamic structur o to coordinate various si	types of intermediat lial cells), glial fibrilla ular smooth muscle of vimentin form interm n particular, vimentin characteristic of diffe arker for intracranial n that vimentin is pre njunction with that o ral changes and spati gnaling pathways (4) cural arrangement of er intermediate filamo	e filaments are distinguished by iry acidic protein (GFAP) (glial cells), vimentin (mesenchyme nediate filaments in astroglial filaments are present at early rentiated and mature brain and intraspinal tumors arising sent in sarcomas, but not f other markers to distinguish al re-organization in response to Phosphorylation of vimentin at vimentin filaments in response t
	site for vimentin-PLK int memory phosphorylatio Additionally, studies usir vimentin at Ser39 by Akt	eraction. PLK further pho n site and play a regulate ng various soft-tissue sar	osphorylates vimentin ory role in vimentin fi coma cells have show n and survival, sugge	orylation provides a PLK binding n at Ser83, which might serve as a lament disassembly (8,9). vn that phosphorylation of esting that vimentin could be a	
Background Refer	ences	2. Goebel, H.H. et al. (19) 3. Leader, M. et al. (1987 4. Helfand, B.T. et al. (2001 5. Tang, D.D. et al. (2005) 6. Fomina, I.G. et al. (199 7. Nieminen, M. et al. (20) <i>Biochem J</i> 388, 773-83.)0) <i>Klin Med (Mosk)</i> 68, 12)06) <i>Nat Cell Biol</i> 8, 156-6 005) <i>J Cell Biol</i> 171, 431-6 <i>Genes Cells</i> 11, 531-40.) <i>Oncogene</i> 30, 457-70.	v/34, 81-93. '2. 25-7. :2.	
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Species Reactivity		Species reactivity is dete		east one approved ap	plication (e.g., western blot).

Cross-Reactivity Key	H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey
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