#9854

Vimentin (D21H3) XP[®] Rabbit mAb (Alexa Fluor[®] 488 Conjugate)



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For Research Use Only, Not for Use in Diagnostic Procedures

Applications: IHC-P, IF-IC, FC-FP	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 Flow Cytometry (Fixed/P	nmunocytochemistry)		Dilution 1:100 - 1:400 1:400 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/Sensitivity		Vimentin (D21H3) XP^{\otimes} Rabbit mAb (Alexa Fluor $^{\otimes}$ 488 Conjugate) detects endogenous levels of total vimentin protein.			
Source / Purification		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 [®] 488 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, wastrocytes. Thus, GFAP is from astrocytes (2). Resecarcinomas, and its expressiveen the two (3). Vimextracellular stimuli help Ser56 in smooth muscle serotonin (5,6). Remodel	sion: cytokeratins (epithel risceral, and certain vascu nts (neurons). GFAP and v motility and shape (1). In while GFAP filaments are co commonly used as a ma earch studies have shown ession is examined in cor mentin's dynamic structura o to coordinate various sig	types of intermediat lial cells), glial fibrilla lar smooth muscle of imentin form interration particular, vimentin tharacteristic of differ rker for intracranial that vimentin is presignation al changes and spat gnaling pathways (4) ural arrangement of r intermediate filam	te filaments are distinguished by ary acidic protein (GFAP) (glial cells), vimentin (mesenchyme mediate filaments in astroglial ifilaments are present at early erentiated and mature brain and intraspinal tumors arising esent in sarcomas, but not of other markers to distinguish ial re-organization in response to phosphorylation of vimentin at fivimentin filaments in response to
		site for vimentin-PLK into memory phosphorylatio Additionally, studies usin vimentin at Ser39 by Akt	eraction. PLK further pho n site and play a regulato ng various soft-tissue sarc	sphorylates vimenti ry role in vimentin f coma cells have show n and survival, sugge	orylation provides a PLK binding n at Ser83, which might serve as a ilament disassembly (8,9). wn that phosphorylation of esting that vimentin could be a
Background References		 Goebel, H.H. et al. (1987) Leader, M. et al. (1987) Helfand, B.T. et al. (2005) Tang, D.D. et al. (2005) Fomina, I.G. et al. (1997) Nieminen, M. et al. (2007) 	Biochem J 388, 773-83. 0) Klin Med (Mosk) 68, 12 06) Nat Cell Biol 8, 156-62 05) J Cell Biol 171, 431-6. Genes Cells 11, 531-40.	734, 81-93. 2. 5-7. 2.	

10. Zhu, Q.S. et al. (2011) Oncogene 30, 457-70.

11. Xue, G. and Hemmings, B.A. (2013) *J Natl Cancer Inst* 105, 393-404.

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Applications Key

Flow Cytometry (Fixed/Permeabilized)

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

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