

CXXC5 (D1O4P) Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IP, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 33	Source/Isotype: Rabbit IgG	UniProt ID: #Q7LFL8	Entrez-Gene Id: 51523
Product Usage Information	2	Application Western Blotting Immunoprecipitation Immunofluorescence		istry)		Dilution 1:1000 1:100 1:1000
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		CXXC5 (D1O4P) Rabbit mAb recognizes endogenous levels of total CXXC5 protein.				
Species predicted to react based on 100% sequence homology		Bovine, Pig				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu172 of human CXXC5 protein.				
Background		The CXXC-type zinc finger protein 5 (CXXC5) is a nuclear protein that regulates gene expression and is involved in the regulation of cell growth and differentiation, apoptosis, cell adhesion, and cytoskeletal organization. The CXXC5 protein is also known as retinoid-inducible nuclear factor (RINF) as it was originally identified from a set of genes upregulated by retinoic acid stimulation (1). CXXC5 is a transcriptional activator of the vascular endothelial growth factor receptor VEGFR2. The CXXC5 protein regulates differentiation and migration of endothelial cells and subsequent blood vessel formation downstream of bone morphogenic protein (BMP) signaling (2). CXXC5 also regulates TNFa-induced apoptosis by facilitating phosphorylation of Smad3 and the nuclear translocation of Smad4 (3). Expression of CXXC5 in skeletal muscle regulates expression of genes involved in skeletal myogenesis (4). This nuclear factor also plays an important role in the regulation of normal myelopoiesis. The <i>CXXC5</i> gene is localized to the 5q31.2 chromosomal region that is often involved in abnormalities associated with various myeloid malignancies, and CXXC5 over-expression is associated with decreased overall survival in human AML (5). Interestingly, CXXC5 is also over-expressed in many solid tumors, and high expression is also correlated with poor prognosis in breast cancer (6).				
Background References		 Pendino, F. et al. (2009) Blood 113, 3172-81. Kim, H.Y. et al. (2014) FASEB J 28, 615-26. Wang, X. et al. (2013) Curr Mol Med 13, 1385-96. Li, G. et al. (2014) J Muscle Res Cell Motil 35, 259-65. Astori, A. et al. (2013) Oncotarget 4, 1438-48. Knappskog, S. et al. (2011) Ann Oncol 22, 2208-15. 				
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4° C with gentle shaking, overnight.

Applications Key

W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human M: Mouse R: Rat Mk: Monkey

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