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Applications: W, IP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 160	Source/Isotype: Rabbit	<b>UniProt ID:</b> #Q13308	Entrez-Gene Id: 5754
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:100	
Storage		Supplied in 10 mM sod 20°C. Do not aliquot th		i), 150 mM NaCl, 100 μg/	ml BSA and 50% gly)	ycerol. Store at –
Specificity/Sensitivity		PTK7 Antibody recognizes endogenous levels of total PTK7 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human PTK7 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		PTK7 functions in cell a reorganization, and ap- closure, neuronal crest canonical (also known a pathways (6). In the no interaction with RACK1 PTK7 exerts an inhibito frizzled receptor bindin while protein stability is for proteolytic degrada Adam17, leading to enl	dhesion, cell migra optosis to regulate formation, and ax as the Wnt/planar n-canonical Wnt p and recruitment of ry effect on canon g at the membran s regulated by men tion and extracellu hanced cell prolife to regulate other s	sine kinase originally ide ation, cell polarity, prolif e embryogenesis, epithe ton guidance (2-5). PTK7 cell polarity signaling) at athway, PTK7 activates of f DSH into the membran ical Wnt pathway signal le surface (8). PTK7 gene mbrane associated prote ular domain shedding by ratiion, migration, and fa ignaling pathways by fu nd VEGFR1 (12-14).	eration, actin cytosl lial tissue organizat acts as a co-recepto nd the canonical Wr lownstream signalin ne localized recepto transduction throu- e expression is regu einase degradation. r the metalloproteir acilitated cancer cel	keleton keleton keleton hi both the non- nt signaling hg by direct for complex (3,6,7). gh competition for lated by Cdx (9), PTK7 is targeted hases MMP14 and l invasion (10,11).
Background Re	eferences	4. Toyofuku, T. et al. (20 5. Lu, X. et al. (2004) <i>Na</i> 6. Peradziryi, H. et al. (2 7. Wehner, P. et al. (201 8. Peradziryi, H. et al. (2 9. Savory, J.G. et al. (201 10. Golubkov, V.S. et al. 11. Na, H.W. et al. (201 12. Wagner, G. et al. (201 13. Lee, H.K. et al. (201	PLoS One 5, e140 ners, A. (2008) Dev 004) Genes Dev 18, ature 430, 93-8. 2012) Arch Biocher 1) Development 1 2011) EMBO J 30, 3 11) Development 1 (2010) J Biol Chen 2) J Biol Chem 287, 010) Biochem Biop 1) Blood 117, 5762	18. elopment 135, 4015-24. 435-47. n Biophys 524, 71-6. 38, 1321-7. 729-40. 38, 1361-70. 1285, 35740-9. 25001-9. hys Res Commun 402, 4		
Species Reactiv	/ity	Species reactivity is det	ermined by testing	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	uffer			membrane with diluted with gentle shaking, ove		ז 5% w/v nonfat
Applications K	ey	W: Western Blotting IP	: Immunoprecipita	ition		
Cross-Reactivit	у Кеу	H: Human M: Mouse R:	: Rat			

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