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DIXDC1 (D7P6Q) Rabbit mAb



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Applications: W	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 77	Source/Isotype: Rabbit IgG	UniProt ID: #Q155Q3	Entrez-Gene Id: 85458		
Product Usage Information		Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	DIXDC1 (D7P6Q) Rabbit mAb recognizes transfected levels of total DIXDC1 protein.						
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu579 of human DIXDC1 protein.						
Background		DIXDC1 (DIXIN, CCD1), is a Disheveled-Axin (DIX) domain protein that was first identified in zebrafish, where it was shown to positively regulate the canonical Wnt signaling pathway (1). <i>In vitro</i> studies subsequently showed that DIXDC1 activates Wnt signaling by binding to Disheveled (Dvl), resulting in the conversion of Dvl from a (latent) polymeric form to biologically active oligomers (2). <i>In vivo</i> studies in mice confirmed an important role for DIXDC1 in early development, by showing that DIXDC1 regulates both neural progenitor proliferation and neuronal migration, via Wnt-dependent and Wnt-independent mechanisms, respectively (3). Additional research suggests that DIXDC1 may function as a suppressor of metastasis by negatively regulating Snail1, implicating DIXDC1 in regulation of epithelial-mesenchymal transition (4). This function for DIXDC1 was shown to be dependent upon phosphorylation at Ser592 by MARK1 and MARK4 kinases (4).						
Background Re	eferences	1. Shiomi, K. et al. (200 2. Liu, Y.T. et al. (2011) 3. Singh, K.K. et al. (20 4. Goodwin, J.M. et al. (<i> Biol Chem</i> 286, 85 10) <i>Neuron</i> 67, 33-4	97-608. 18.				
Species Reactiv	vity	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	uffer	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 Ke	ey	W: Western Blotting						
Cross-Reactivit	у Кеу	H: Human						
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