

#2530 Store at -20C

Wnt5a/b (C27E8) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	45	Rabbit IgG	#Q9H1J7, #P41221	81029, 7474

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 / Sensitivity	Wnt5a/b (C27E8) Rabbit mAb detects endogenous levels of Wnt5a and Wnt5b proteins. This antibody cross-reacts with an unidentified protein between 55 and 60 kDa.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu201 of Isoform 1 and Glu186 of Isoform 2 of the human Wnt5a protein. This antibody works to detect both isoforms of human Wnt5a protein.	
Background	<p>The Wnt family includes several secreted glycoproteins that play important roles in animal development (1). There are 19 Wnt genes in the human genome that encode functionally distinct Wnt proteins (2). Wnt members bind to the Frizzled family of seven-pass transmembrane proteins and activate several signaling pathways (3). The canonical Wnt/β-catenin pathway also requires a coreceptor from the low-density lipoprotein receptor family (4). Aberrant activation of Wnt signaling pathways is involved in several types of cancers (5).</p> <p>Wnt-5a has been shown to signal through the canonical Wnt pathways as well as through non-canonical pathways and is up-regulated in various types of human cancers (6-8). In melanoma, Wnt5a is thought to directly affect cell motility and metastasis (9).</p>	
Background References	<ol style="list-style-type: none"> 1. Cadigan, K.M. and Nusse, R. (1997) <i>Genes Dev.</i> 11, 3286-3305. 2. Moon, R.T. et al. (1997) <i>Trends Genet.</i> 13, 157-162. 3. Kohn, A.D. and Moon, R.T. (2004) <i>Cell Calcium</i> 38, 439-446. 4. Logan, C.Y. and Nusse, R. (2004) <i>Annu. Rev. Cell Dev. Biol.</i> 20, 781-810. 5. Giles, R.H. et al. (2003) <i>Biochim. Biophys. Acta.</i> 1653, 1-24. 6. Mikels, A.J. and Nusse, R. (2006) <i>PLoS Biol.</i> 4, e115. 7. Katoh, M. and Katoh, M. (2007) <i>Int. J. Mol. Med.</i> 19, 273-278. 8. Katoh, M. (2005) <i>Oncol. Rep.</i> 14, 1583-1588. 9. Weeraratna, A.T. et al. (2002) <i>Cancer Cell</i> 1, 279-288. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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