

#2392

Wnt5a Antibody



**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

<b>Applications:</b> WB	<b>Reactivity:</b> M	<b>Sensitivity:</b> Transfected Only	<b>MW (kDa):</b> 45	<b>Source:</b> Rabbit	<b>UniProt ID:</b> #P41221	<b>Entrez-Gene Id:</b> 7474
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<b>Product Usage Information</b>	<p><b>Application</b></p> <p>Western Blotting</p>	<p><b>Dilution</b></p> <p>1:1000</p>
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.	
<b>Specificity / Sensitivity</b>	Wnt5a Antibody detects transfected Wnt5a protein in L cells.	
<b>Species predicted to react based on 100% sequence homology:</b>	Human	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val285 of human Wnt5a protein. Antibodies are purified by protein A and peptide affinity chromatography.	
<b>Background</b>	<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>	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Cadigan, K.M. and Nusse, R. (1997) <i>Genes Dev.</i> 11, 3286-3305.</li> <li>2. Moon, R.T. et al. (1997) <i>Trends Genet.</i> 13, 157-162.</li> <li>3. Kohn, A.D. and Moon, R.T. (2004) <i>Cell Calcium</i> 38, 439-446.</li> <li>4. Logan, C.Y. and Nusse, R. (2004) <i>Annu. Rev. Cell Dev. Biol.</i> 20, 781-810.</li> <li>5. Giles, R.H. et al. (2003) <i>Biochim. Biophys. Acta.</i> 1653, 1-24.</li> <li>6. Mikels, A.J. and Nusse, R. (2006) <i>PLoS Biol.</i> 4, e115.</li> <li>7. Katoh, M. and Katoh, M. (2007) <i>Int J Mol Med</i> 19, 273-278.</li> <li>8. Katoh, M. (2005) <i>Oncol. Rep.</i> 14, 1583-1588.</li> <li>9. Weeraratna, A.T. et al. (2002) <i>Cancer Cell</i> 1, 279-288.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<p><b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster</p> <p><b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse</p> <p><b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected</p>

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