



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

Store at -20C
#2392

Wnt5a Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: M	Sensitivity: Transfected Only	MW (kDa): 45	Source/Isotype: Rabbit	UniProt ID: #P41221	Entrez-Gene Id: 7474
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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 and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Wnt5a Antibody detects transfected Wnt5a protein in L cells.

Species predicted to react based on 100% sequence homology

Human

Source / Purification

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.

Background

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). 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).

Background References

1. Cadigan, K.M. and Nusse, R. (1997) *Genes Dev.* 11, 3286-3305.
2. Moon, R.T. et al. (1997) *Trends Genet.* 13, 157-162.
3. Kohn, A.D. and Moon, R.T. (2004) *Cell Calcium* 38, 439-446.
4. Logan, C.Y. and Nusse, R. (2004) *Annu. Rev. Cell Dev. Biol.* 20, 781-810.
5. Giles, R.H. et al. (2003) *Biochim. Biophys. Acta.* 1653, 1-24.
6. Mikels, A.J. and Nusse, R. (2006) *PLoS Biol.* 4, e115.
7. Katoh, M. and Katoh, M. (2007) *Int J Mol Med* 19, 273-278.
8. Katoh, M. (2005) *Oncol. Rep.* 14, 1583-1588.
9. Weeraratna, A.T. et al. (2002) *Cancer Cell* 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

M: Mouse

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