

Frizzled6 (D16E5) Rabbit mAb



Orders ■ 877-616-CELL (2355)
orders@cellsignal.com
Support ■ 877-678-TECH (8324)
info@cellsignal.com
Web ■ www.cellsignal.com

rev. 01/28/16

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IP Endogenous	H, Mk	75-85 kDa	Rabbit IgG**

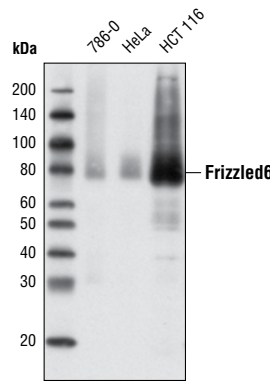
Background: Frizzled (Fzd) belongs to the seven transmembrane-spanning G-protein-coupled receptor (GPCR) superfamily (1). Fzds have a large extracellular N-terminal region containing a cysteine-rich domain (CRD), which is involved in binding to Wnt proteins (1,2). The intracellular C-terminus binds to the PDZ domain of Dvl proteins, a major signaling component downstream of Fzd (3). Wnt proteins bind to Fzd and the co-receptors LRP5 or LPR6, and activate Wnt/ β -catenin pathway through inhibiting phosphorylation of β -catenin by GSK3- β (4,5). In addition to this canonical Wnt/ β -catenin pathway, some Wnt proteins can also activate the Fzd/ Ca^{2+} pathway and Fzd/PCP (planar cell polarity) pathway (6,7). The mammalian Fzd subfamily has 10 members (Fzd1 to Fzd10) and they may mediate signaling through different pathways (8). Some Fzds can also bind to other secreted proteins, like Norrin and R-Spondin (9-11).

Specificity/Sensitivity: Frizzled6 (D16E5) Rabbit mAb detects endogenous levels of total Frizzled6 protein.

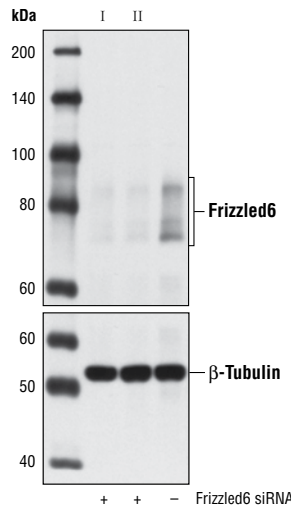
Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Frizzled6 protein.

Background References:

- (1) Schulte, G. and Bryja, V. (2007) *Trends Pharmacol Sci* 28, 518-25.
- (2) Hsieh, J.C. et al. (1999) *Proc Natl Acad Sci USA* 96, 3546-51.
- (3) Wong, H.C. et al. (2003) *Mol Cell* 12, 1251-60.
- (4) Zeng, X. et al. (2005) *Nature* 438, 873-7.
- (5) Davidson, G. et al. (2005) *Nature* 438, 867-72.
- (6) Fanto, M. and McNeill, H. (2004) *J Cell Sci* 117, 527-33.
- (7) Kohn, A.D. and Moon, R.T. *Cell Calcium* 38, 439-46.
- (8) Cadigan, K.M. and Liu, Y.I. (2006) *J Cell Sci* 119, 395-402.
- (9) Xu, Q. et al. (2004) *Cell* 116, 883-95.
- (10) Nam, J.S. et al. (2006) *J Biol Chem* 281, 13247-57.
- (11) Hendrickx, M. and Leyns, L. (2008) *Dev Growth Differ* 50, 229-43.



Western blot analysis of extracts from 786-O, HeLa, and HCT 116 cells using Frizzled6 (D16E5) Rabbit mAb.



Western blot analysis of extracts from HeLa cells, transfected with 100 nM SignalSilence® Frizzled6 siRNA I #6596, 100 nM SignalSilence® Frizzled6 siRNA II #6597, or mock transfected, using Frizzled6 (D16E5) Rabbit mAb (upper) or β -Tubulin (9F3) Rabbit mAb #2128 (lower). The Frizzled6 (D16E5) Rabbit mAb confirms silencing of Frizzled6 expression, while the β -Tubulin (9F3) Rabbit mAb is used as a loading control.

Entrez-Gene ID #8323
Swiss-Prot Acc. #060353

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C . Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:200

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.