

**FZD6 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP11009c****Specification**

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**FZD6 Antibody (Center) - Product Information**

|                   |   |
|-------------------|---|
| Application       | WB,E  |
| Primary Accession | <a href="#">O60353</a>  |
| Other Accession   | <a href="#">O61089</a> , <a href="#">NP_001158087.1</a> , <a href="#">NP_003497.2</a> |
| Reactivity        | Human   |
| Predicted         | Mouse   |
| Host              | Rabbit  |
| Clonality         | Polyclonal  |
| Isotype           | Rabbit IgG  |
| Calculated MW     | 79292   |
| Antigen Region    | 493-520   |

**FZD6 Antibody (Center) - Additional Information****Gene ID** 8323**Other Names**

Frizzled-6, Fz-6, hFz6, FZD6

**Target/Specificity**

This FZD6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 493-520 amino acids from the Central region of human FZD6.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

FZD6 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**FZD6 Antibody (Center) - Protein Information****Name** FZD6**Function** Receptor for Wnt proteins. Most of frizzled receptors are coupled to the beta-catenin

canonical signaling pathway, which leads to the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin and activation of Wnt target genes. A second signaling pathway involving PKC and calcium fluxes has been seen for some family members, but it is not yet clear if it represents a distinct pathway or if it can be integrated in the canonical pathway, as PKC seems to be required for Wnt-mediated inactivation of GSK-3 kinase. Both pathways seem to involve interactions with G-proteins. May be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues. Together with FZD3, is involved in the neural tube closure and plays a role in the regulation of the establishment of planar cell polarity (PCP), particularly in the orientation of asymmetric bundles of stereocilia on the apical faces of a subset of auditory and vestibular sensory cells located in the inner ear (By similarity).

#### **Cellular Location**

Membrane {ECO:0000250|UniProtKB:Q61089}; Multi-pass membrane protein. Cell membrane {ECO:0000250|UniProtKB:Q61089}; Multi-pass membrane protein. Cell surface {ECO:0000250|UniProtKB:Q61089}. Apical cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:Q61089}; Multi-pass membrane protein. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q61089}; Multi-pass membrane protein. Note=Colocalizes with FZD3 at the apical face of cells (By similarity). Localizes to the endoplasmic reticulum membrane in the presence of LMBR1L (By similarity). {ECO:0000250|UniProtKB:Q61089}

#### **Tissue Location**

Detected in adult heart, brain, placenta, lung, liver, skeletal muscle, kidney, pancreas, thymus, prostate, testis, ovary, small intestine and colon. In the fetus, expressed in brain, lung, liver and kidney

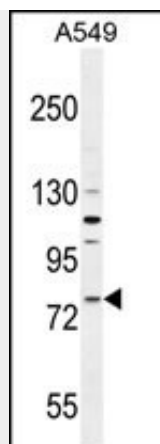
#### **FZD6 Antibody (Center) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **FZD6 Antibody (Center) - Images**





FZD6 Antibody (Center) (Cat. #AP11009c) western blot analysis in A549 cell line lysates (35ug/lane). This demonstrates the FZD6 antibody detected the FZD6 protein (arrow).

#### **FZD6 Antibody (Center) - Background**

This gene represents a member of the 'frizzled' gene family, which encode 7-transmembrane domain proteins that are receptors for Wnt signaling proteins. The protein encoded by this family member contains a signal peptide, a cysteine-rich domain in the N-terminal extracellular region, and seven transmembrane domains, but unlike other family members, this protein does not contain a C-terminal PDZ domain-binding motif. This protein functions as a negative regulator of the canonical Wnt/beta-catenin signaling cascade, thereby inhibiting the processes that trigger oncogenic transformation, cell proliferation, and inhibition of apoptosis. Alternative splicing results in multiple transcript variants.

#### **FZD6 Antibody (Center) - References**

Yerges, L.M., et al. J. Bone Miner. Res. 24(12):2039-2049(2009)  
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Sirchia, R., et al. Biol. Chem. 388(5):457-465(2007)  
Lyons, J.P., et al. Exp. Cell Res. 298(2):369-387(2004)