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Product datasheet for AP22449PU-N

Frizzled 2 (FZD2) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	**Peptide ELISA:** Limit Dlution: 1/64000. **Western Blot:** 0.03-0.1 µg/ml. Approx 60-65kDa band observed in Human Heart and Placenta lysates (calculated MW of 63.6 kDa according to NP_001457.1) An additional band of approx. 24kDa was also observed in some lysates which was successfully blocked by incubation with the immunizing peptide. Primary incubation 1 hour at room temperature. **Immunohistochemistry on Paraffin Sections:** 2-5 µg/ml in paraffin embedded Human Thyroid Gland shows cytoplasm and membranous staining in epithelial cells of the follicles. 2.5 µg/ml in paraffin embedded Human Liver. **Immunofluorescence:** 10 µg/ml. Strong expression of the protein seen in the nucleus and cytoplasm of U2OS cells.
Reactivity:	Human, Mouse, Rat
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Peptide with sequence from the internal region of the protein sequence according to NP_001457.1.
Specificity:	Recognizes FZD2 / Frizzled-2.
Formulation:	Tris saline, pH~7.3 with 0.02% Sodium Azide and 0.5% BSA State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Ammonium Sulphate Precipitation followed by antigen Affinity Chromatography using the immunizing peptide
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.

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Gene Name: frizzled class receptor 2

Database Link: Entrez Gene 57265 Mouse Entrez Gene 64512 Rat Entrez Gene 2535 Human Q14332

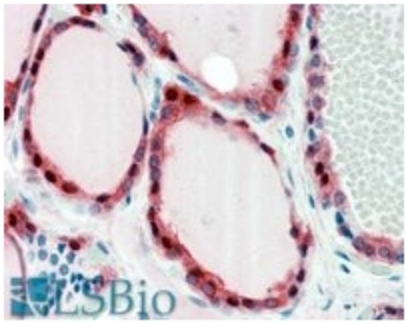
Background: FZD2 is a Frizzled Receptor that mediates Wnt signaling, which is required for proper axis development in the embryo. FZD2 is developmentally regulated. Studies of rat FZD2 indicate that the protein signals through a calcium-releasing pathway and that FDZ2 expression modulates protein kinase C (PKC) localization and stimulates PKC activity in vitro. Increased levels of FZD2 mRNA have been observed in primary gastric cancer and in head and neck squamous carcinoma and gastric cancer cell lines.
FZD2 expression has been documented in human brain, heart, kidney, lung, colon, ovary and stomach. High levels of expression have been observed in fetal kidney and lung and adult colon and ovary. ESTs have been isolated from human tissue libraries, including cancerous kidney, lung, lymph and testis, and normal blood, cervix, embryo and kidney.

Synonyms: Fz-2, hFz2, FzE2

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Basal cell carcinoma, Colorectal cancer, Melanogenesis, Pathways in cancer, Wnt signaling pathway

Product images:



FZD2 antibody staining of paraffin embedded Human Thyroid Gland at 2.5 ug/ml. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.