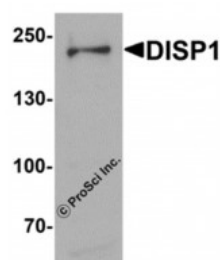


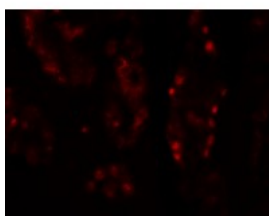


DISP1 Antibody

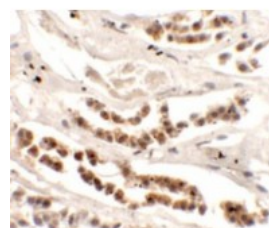
CATALOG NUMBER: 6629



Western blot analysis of DISP1 in 3T3 cell lysate with DISP1 antibody at 1 ug/mL.



Immunofluorescence of DISP1 in human kidney tissue with DISP1 antibody at 20 ug/mL.



Immunohistochemistry of DISP1 in human kidney tissue with DISP1 antibody at 2.5 ug/mL.

Specifications

SPECIES REACTIVITY:	Human, Mouse
TESTED APPLICATIONS:	ELISA, IF, IHC-P, WB
APPLICATIONS:	DISP1 antibody can be used for detection of DISP1 by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1212 - 3T3 Cell Lysate
SPECIFICITY:	At least two isoforms of DISP1 are known to exist; this antibody will detect both isoforms. DISP1 antibody is predicted to not cross-react with EMX1.
IMMUNOGEN:	DISP1 antibody was raised against a 16 amino acid synthetic peptide near the amino terminus of human DISP1. The immunogen is located within amino acids 20 - 70 of DISP1.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	DISP1 Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	DISP1 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	DISP1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	DISP1 Antibody: DISPA, DISPA, Protein dispatched homolog 1
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ACCESSION NO.:	NP_116279
PROTEIN GI NO.:	25952134
OFFICIAL SYMBOL:	DISP1
GENE ID:	84976

Background

BACKGROUND: DISP1 Antibody: DISP1 is the mammalian homolog of the Drosophila Dispatched segment-polarity gene and a key regulator of the Hedgehog (Hh) signaling pathway during embryonic development. DISP1 is required to move Shh from site of synthesis during embryogenesis; mutations in the gene result in lethality at mid-gestation and prevents specification of ventral cell types in the neural tube. Recent results have shown that DISP1 mediates the basolateral secretion of Shh and regulates growth of mammalian long bones through the control of Ihh.

REFERENCES:

- 1) Caspary T, Garcia-Garcia MJ, Huangfu D, et al. Mouse dispatched homolog1 is required for long-range, but not juxtacrine, Hh signaling. *Curr. Biol.* 2002; 12:1628-32
- 2) Etheridge LA, Crawford TQ, Zhang S, et al. Evidence for a role of vertebrate Disp1 in long-range Shh signaling. *Development* 2010; 137:133-40.
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FOR RESEARCH USE ONLY

December 13, 2016