

DISP2 Antibody

Catalog # ASC10802

Product Information

Application	E, IHC-P
Primary Accession	A7MBM2
Other Accession	A7MBM2 , 160380692
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	152003
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	DISP2 antibody can be used for detection of DISP2 by immunohistochemistry at 5 µg/mL.

Additional Information

Gene ID	85455
Other Names	Protein dispatched homolog 2, DISP2, DISPB, KIAA1742
Target/Specificity	DISP2; DISP2 antibody is human specific. At least two isoforms of Disp2 are known to exist. DISP2 antibody is predicted to not cross-react with Disp1 or Disp3.
Reconstitution & Storage	DISP2 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.
Precautions	DISP2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DISP2 (HGNC:19712)
Cellular Location	Membrane; Multi-pass membrane protein

Background

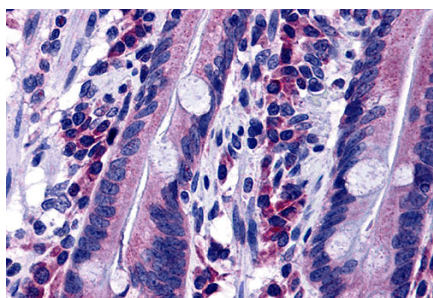
DISP2 Antibody: DISP2 is the second of three known homologs of the *D. melanogaster* protein Dispatched. It is a multi-transmembrane protein containing two PTCH/DISP domains and is thought to be involved in the release of lipid-anchored Hedgehog from producing cells. Hedgehog is a major player in signaling pathways

during embryogenesis, tissue regeneration, and carcinogenesis and the DISP proteins have been implicated in these pathways. Recently, it has been shown that DISP2 is translationally regulated by the microRNA miR-214 in zebrafish. Expression of this miRNA decreased DISP2 promoter activity in vitro and its overexpression in zebrafish resulted in a phenotype identical to that observed by DISP2 mutants.

References

Katoh Y and Katoh M. Identification and characterization of DISP3 gene in silico. *Int. J. Oncol.* 2005; 26:551-6.
Katoh Y and Katoh M. Hedgehog signaling pathway and gastric cancer. *Can. Biol. & Ther.* 2005; 4:1050-4.
Li N, Flynt AS, Kim HR, et al. Dispatched homolog 2 is targeted by miR-214 through a combination of three week microRNA recognition sites. *Nuc. Acids Res.* 2008; 36:4277-85.

Images



Immunohistochemistry of DISP2 in human small intestine tissue with DISP2 antibody at 5 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.