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Datasheet for 600-401-AW2

# DISP2 Antibody

## Overview

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| **Description:** | Anti-DISP2 (RABBIT) Antibody - 600-401-AW2 |
| **Item No.:** | 600-401-AW2 |
| **Size:** | 100 µg |
| **Applications:** | ELISA, IHC |
| **Reactivity:** | Human |
| **Host Species:** | Rabbit |

## Product Details

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| **Background:** | 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. |
| **Synonyms:** | DISP2 Antibody, DISPB, HsT16908, DISPB, KIAA1742, Protein dispatched homolog 2 |
| **Host Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |

## Target Details

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| **Gene Name:** | DISP2 |
| **Reactivity:** | Human |
| **Immunogen Type:** | Conjugated Peptide |
| **Immunogen:** | Anti-DISP2 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide near the N-terminus of human DISP2. |

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| **Purity/Specificity:** | Anti-DISP2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. 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. |
| **Relevant Links:** | • UniProtKB - A7MBM2<br>• GeneID - 85455<br>• NCBI - A7MBM2 |

## Application Details

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| **Tested Applications:** | ELISA, IHC |
| **Application Note:** | Anti-DISP2 Antibody has been tested for use in ELISA and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 152 kDa in Western Blots of specific cell lysates and tissues. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **ELISA:** | User Optimized |
| **IHC:** | 5 µg/mL |

## Formulation

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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 1 mg/mL by UV absorbance at 280 nm |
| **Buffer:** | 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2 |
| **Preservative:** | 0.02% (w/v) Sodium Azide |
| **Stabilizer:** | None |

## Shipping & Handling

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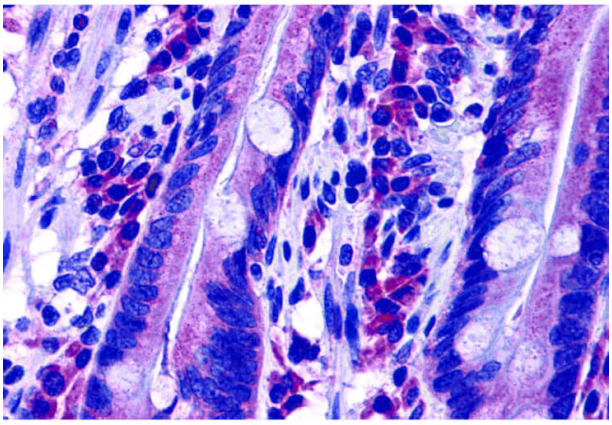
| **Shipping Condition:** | Dry Ice |
| **Storage Condition:** | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| **Expiration:** | Expiration date is one (1) year from date of receipt. |

## Images



**Immunohistochemistry**
Immunohistochemistry of DISP2 antibody. Tissue: Human small intestine tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: DISP2 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: DISP2 is nuclear and occasionally cytoplasmic. Staining: DISP2 as precipitated red signal with hematoxylin purple nuclear counterstain.

## Disclaimer