

**DAAM2 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17286c****Specification**

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**DAAM2 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q86T65](#)**DAAM2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 23500**Other Names**

Disheveled-associated activator of morphogenesis 2, DAAM2, KIAA0381

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**DAAM2 Antibody (Center) Blocking Peptide - Protein Information****Name** DAAM2 ([HGNC:18143](#))**Function**

Key regulator of the Wnt signaling pathway, which is required for various processes during development, such as dorsal patterning, determination of left/right symmetry or myelination in the central nervous system. Acts downstream of Wnt ligands and upstream of beta- catenin (CTNNB1). Required for canonical Wnt signaling pathway during patterning in the dorsal spinal cord by promoting the aggregation of Disheveled (Dvl) complexes, thereby clustering and formation of Wnt receptor signalosomes and potentiating Wnt activity. During dorsal patterning of the spinal cord, inhibits oligodendrocytes differentiation via interaction with PIP5K1A. Also regulates non-canonical Wnt signaling pathway. Acts downstream of PITX2 in the developing gut and is required for left/right asymmetry within dorsal mesentery: affects mesenchymal condensation by lengthening cadherin- based junctions through WNT5A and non-canonical Wnt signaling, inducing polarized condensation in the left dorsal mesentery necessary to initiate gut rotation. Together with DAAM1, required for myocardial maturation and sarcomere assembly. Is a regulator of actin nucleation and elongation, filopodia formation and podocyte migration (PubMed:<a href="http://www.uniprot.org/citations/33232676" target="\_blank">33232676</a>).

**Tissue Location**

Expressed in most tissues examined. Expressed in kidney glomeruli (PubMed:33232676).

## **DAAM2 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **DAAM2 Antibody (Center) Blocking Peptide - Images**

## **DAAM2 Antibody (Center) Blocking Peptide - Background**

DAAM2, dishevelled associated activator of morphogenesis 2, belongs to the formin homology family and contains a DAD (diaphanous autoregulatory) domain, an FH1 (formin homology 1) domain, an FH2 (formin homology 2) domain and a GBD/FH3 (Rho GTPase-binding/ formin homology 3) domain. It is a recently identified planar cell polarity (PCP) signaling molecule implicated in the regulation of cellular polarity, convergent extension, and invasion. It is suggested that DAAM2 is closely related to DAAM1 and hence along with DAAM1 it may also be required in Wnt/Fz signaling and activation of Rho and in regulating cytoskeleton architecture. It is expressed in most tissues examined.

## **DAAM2 Antibody (Center) Blocking Peptide - References**

Repapi, E., et al. Nat. Genet. 42(1):36-44(2010)Hirata, H., et al. Cancer 115(19):4488-4503(2009)Mungall, A.J., et al. Nature 425(6960):805-811(2003)Katoh, M., et al. Int. J. Oncol. 22(4):915-920(2003)Habas, R., et al. Cell 107(7):843-854(2001)