

DACT1 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP5921a**Specification**

DACT1 Antibody (N-term) Blocking peptide - Product Information

Primary Accession [O9NYF0](#)
Other Accession [NP_057735.2](#)

DACT1 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 51339

Other Names

Dapper homolog 1, hDPR1, Dapper antagonist of catenin 1, Hepatocellular carcinoma novel gene 3 protein, DACT1, DPR1, HNG3

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.

DACT1 Antibody (N-term) Blocking peptide - Protein Information

Name DACT1

Synonyms DPR1, HNG3

Function

Involved in regulation of intracellular signaling pathways during development. Specifically thought to play a role in canonical and/or non-canonical Wnt signaling pathways through interaction with DSH (Dishevelled) family proteins. The activation/inhibition of Wnt signaling may depend on the phosphorylation status. Proposed to regulate the degradation of CTNNB1/beta-catenin, thereby modulating the transcriptional activation of target genes of the Wnt signaling pathway. Its function in stabilizing CTNNB1 may involve inhibition of GSK3B activity. Promotes the membrane localization of CTNNB1. The cytoplasmic form can induce DVL2 degradation via a lysosome-dependent mechanism; the function is inhibited by PKA-induced binding to 14-3-3 proteins, such as YWHAB. Seems to be involved in morphogenesis at the primitive streak by regulating VANGL2 and DVL2; the function seems to be independent of canonical Wnt signaling and rather involves the non-canonical Wnt/planar cell polarity (PCP) pathway (By similarity). The nuclear form may prevent the formation of LEF1:CTNNB1 complex and recruit HDAC1 to LEF1 at target gene promoters to repress transcription thus antagonizing Wnt signaling. May be involved in positive regulation of fat cell differentiation. During neuronal differentiation may be involved in

excitatory synapse organization, and dendrite formation and establishment of spines.

Cellular Location

Cytoplasm. Nucleus. Synapse. Note=Shuttles between the nucleus and the cytoplasm. Seems to be nuclear in the absence of Wnt signaling and to translocate to the cytoplasm in its presence

DACT1 Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

DACT1 Antibody (N-term) Blocking peptide - Images