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11-10012: Polyclonal Antibody to Dapper homolog 1

Clonality :	Polyclonal
Application :	WB
Reactivity :	Human
Gene :	DACT1
Gene ID :	51339
Uniprot ID :	Q9NYF0
Format :	Purified
Alternative Name :	DACT1,DPR1,HNG3
Isotype :	Rabbit IgG
Immunogen Information :	A partial length recombinant Dapper homolog 1 protein (amino acids 645-820) was used as the immunogen for this antibody.

Description

Dapper homolog 1 (DACT1) is a cytoplasmic protein and a member of DACT family. It is an important regulator in the planar cell polarity (PCP) pathway. DACT1 interacts and posttranslationally regulates central PCP components Dvl2 and Vangl2 and modulates PCP downstream of the Rac1/JNK cascade. The gene for DACT1 is located at chromosome 14q22.3, which encodes a 836 amino acid protein with a putative leucine zipper (LZ) domain in the amino-terminal end and a consensus PDZ binding (PDZ-B) motif in the carboxy-terminal end that allows the DACT1 protein to interact with the Dishevelled (Dvl) PDZ domain. DACT1 is an important positive regulator in colon cancer through regulating the stability and sublocation of Beta-catenin. The overexpression of DACT1 leads to the increased accumulation of nonphosphorylated Beta-catenin in the cytoplasm and particularly in the nuclei.It interacts with GSK-3beta and beta-catenin and stabilizes it via DACT1-induced effects on GSK-3beta which directly interacts with beta-catenin proteins. This interaction identifies DACT1 as an important positive regulator in colon cancer and suggests a potential strategy for the therapeutic control of the beta-catenin-dependent pathway.

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein A Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Western blot analysis: 2-4 Ã□Âµg/ml

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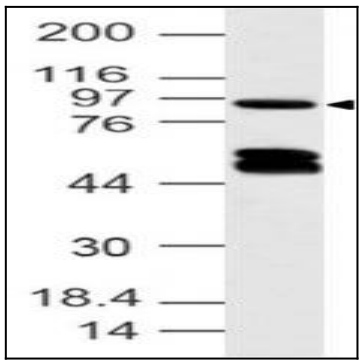

Fig-1: Western blot analysis of Dapper homolog 1. Anti-Dapper homolog 1 antibody (11-10012) was used at 4 µg/ml on Jurkat lysate.

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