

Datasheet for 600-401-AS1**Dact3 Antibody****Overview**

Description:	Anti-Dact3 (RABBIT) Antibody - 600-401-AS1
Item No.:	600-401-AS1
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details**Background:**

The Wnt signaling cascade is a conserved process in multicellular animals that plays important roles during development and can contribute to cancer and other diseases. Many members of this pathway are also expressed in the postnatal tissues such as brain. One such protein is Dact3, a member of the Dact protein family that was initially identified through binding to Disheveled (Dvl), a cytoplasmic protein essential to Wnt signaling. Dact3 is expressed in the ventral region of maturing somites, limb bud and branchial arch mesenchyme, embryonic CNS, and the adult brain. Recent evidence shows that Dact3 acts as a negative regulator Wnt/beta-catenin signaling that is repressed at the transcriptional level in colorectal cancer and this repression is associated with bivalent histone modifications. This repression can be reversed by pharmacological agents that targets both histone methylation and deacetylation, suggesting that Dact3 may be a potential target for therapeutic treatment of this cancer. At least three isoforms of Dact3 are known to exist.

Synonyms:	Dact3 Antibody, RRR1, DAPPER3, RRR1, Dapper homolog 3, Antagonist of beta-catenin Dapper homolog 3
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	DACT3
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Dact3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide from near the N-terminus of human Dact3.
Purity/Specificity:	Anti-Dact3 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Dact3 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q96B18 • GeneID - 147906 • NCBI - NP_001287975.1

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Dact3 Antibody has been tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 65 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:	1:10,000
WB:	1 µg/mL

Formulation

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

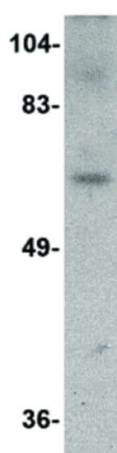
Shipping & Handling

Shipping Condition:	Dry Ice
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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



Western Blot

Western Blot of Dact3 antibody. Lane A: Rat brain tissue lysate at 1 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 64.9 kDa, ~65 kDa for Dact3.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.