

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse DACT3/Dapper 3 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant mouse DACT2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse DACT3/Dapper 3 Pro486-Lys587 Accession # Q0PHV7
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Dapper 3 (also Dact 3) is a 63 kDa (predicted) member of the DACT (Dapper/Frodo) family of Dvl-binding proteins. It is expressed in cerebral cortex and uterus where it antagonizes Wnt/β-catenin signaling. When present in colorectal tumor cells, it initiates apoptosis. Both effects are likely the result of a Dapper 3 interaction with Dvl2, thereby blocking β-catenin entry into the nucleus. Mouse Dapper 3 is 610 amino acids (aa) in length. It contains one coiled-coil region (aa 63-87), an Arg-rich domain (aa 351-476), and a PZD-binding motif (aa 607-610). There is one potential splice variant that shows a 45 aa substitution for aa 413-610. In human Dact 3 the frameshift at position 119 is reported to yield a protein product with estimated molecular weight of 41 kDa. Over aa 486-587, mouse dapper 3 shares 82% and 99% aa identity with human and rat dapper 3, respectively.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc., and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.