

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 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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

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