Human/Mouse DACT3/Dapper 3 Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: AF5767

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	*E. coli*-derived recombinant mouse DACT3/Dapper 3 Pro486-Lys587 Accession # Q0PHV7
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

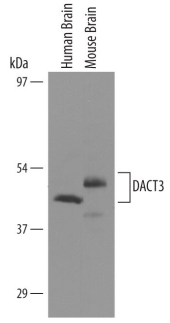
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Human and Mouse DACT3/Dapper 3 by Western Blot. Western blot shows lysates of human brain tissue and mouse brain tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human/Mouse DACT3/Dapper 3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5767) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). Specific bands were detected for DACT3/Dapper 3 at approximately 45 kDa with human brain and 50 kDa with mouse brain (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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 moleqular weight of 41 kDa. Over aa 486-587, mouse dapper 3 shares 82% and 99% aa identity with human and rat dapper 3, respectively.

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