

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse DACH2 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human DACH2 Gln419-Gln583 Accession # Q96NX9
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 either lyophilized or as a 0.2 µm filtered solution in PBS.

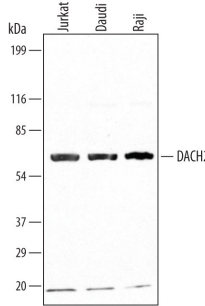
APPLICATIONS

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
Immunohistochemistry	5-15 µg/mL	See Below

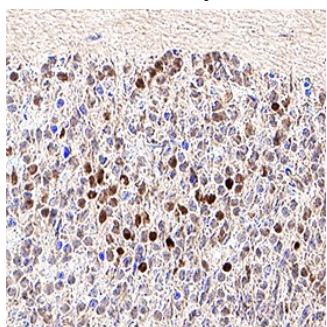
DATA

Western Blot



Detection of Human DACH2 by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line, Daudi human Burkitt's lymphoma cell line, and Raji human Burkitt's lymphoma cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human/Mouse DACH2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5230) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for DACH2 at approximately 65 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



DACH2 in Mouse Embryonic Brain. DACH2 was detected in perfusion fixed frozen sections of mouse embryonic brain (13 d.p.c.) using Goat Anti-Human/Mouse DACH2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5230) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Goat IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC004). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei in neuronal cells. View our protocol for [IHC Staining with VisUCyte HRP Polymer Detection Reagents](#).

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. <ul style="list-style-type: none"> 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

DACH2 (Dachshund 2) is a 65 kDa (predicted) member of the DACH family of transcription factors. It is expressed in the dermomyotome and Mullerian duct, and promotes Mullerian duct formation and myogenin gene suppression. Human DACH2 is 599 amino acids (aa) in length and contains a DD1 domain in the N-terminus (aa 66-162) that mediates DNA binding, and a C-terminal, coiled-coil DD2 domain (aa 452-543) that interacts with EYA proteins. Multiple splice variants of DACH2 are known. There is an alternate start site at Met220 that may be accompanied by both a deletion of aa 259-311 and a three aa substitution for aa 585-599. In addition, there is a deletion of aa 163-175 that may be accompanied by an Ala substitution for aa 584-599. Finally, there is a 41 aa substitution for aa 1-175. Over aa 419-583, human DACH2 is 93% aa identical to mouse DACH2.