abcam

Product datasheet

Anti-DACH1 antibody ab226176

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Overview

Product name	Anti-DACH1 antibody
Description	Rabbit polyclonal to DACH1
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP, IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse
Immunogen	Synthetic peptide within Human DACH1 aa 740-760. The exact sequence is proprietary. Database link: **Q9UI36**
Positive control	IHC-P: Human breast carcinoma tissue. WB: HEK-293T whole cell lysate. IP: HEK-293T whole cell lysate.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 6.8 Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, Tris buffered saline
Purity	Immunogen affinity purified
Purification notes	ab226176 was affinity purified using an epitope specific to DACH1 immobilized on solid support.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab226176 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000 - 1/10000. Predicted molecular weight: 79 kDa.
IP		Use at 2-10 µg/mg of lysate.
IHC-P		1/100 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function Transcription factor that is involved in regulation of organogenesis. Seems to be a regulator of SIX1, SIX6 and probably SIX5. Corepression of precursor cell proliferation in myoblasts by SIX1 is switched to coactivation through recruitment of EYA3 to the SIX1-DACH1 complex. Transcriptional activation seems also to involve association of CREBBP. Seems to act as a corepressor of SIX6 in regulating proliferation by directly repressing cyclin-dependent kinase inhibitors, including the p27Kip1 promoter (By similarity). Inhibits TGF-beta signaling through interaction with SMAD4 and NCOR1. Binds to chromatin DNA via its DACHbox-N domain.

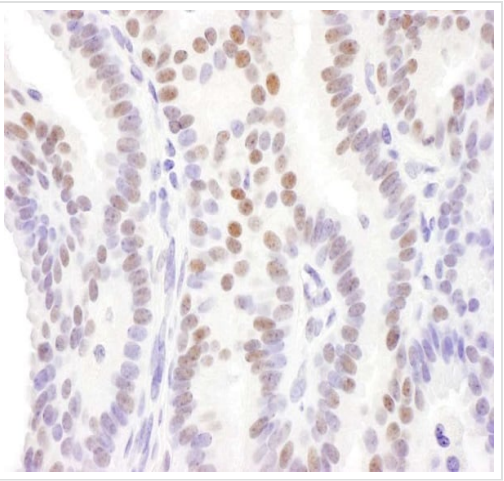
Tissue specificity Widely expressed. Isoform 2 is found in brain, heart, kidney, liver, leukocytes and spleen. Isoform 3 is found in liver and heart. Isoform 4 is found in spleen.

Sequence similarities Belongs to the DACH/dachshund family.

Domain The DACHbox-N/DD1 domain forms a structure containing a DNA binding motif similar to that of the forkhead/winged helix domain.

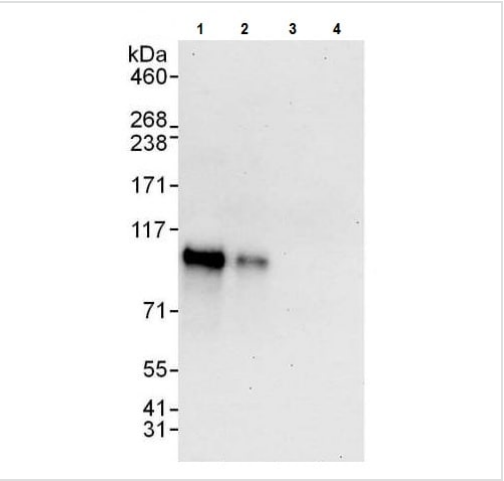
Cellular localization Nucleus.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DACH1 antibody (ab226176)

Formalin-fixed, paraffin-embedded human breast carcinoma tissue stained for DACH1 using ab226176 at 1/200 dilution in immunohistochemical analysis. Detection: DAB staining. Counterstain: Hematoxylin (blue).



Western blot - Anti-DACH1 antibody (ab226176)

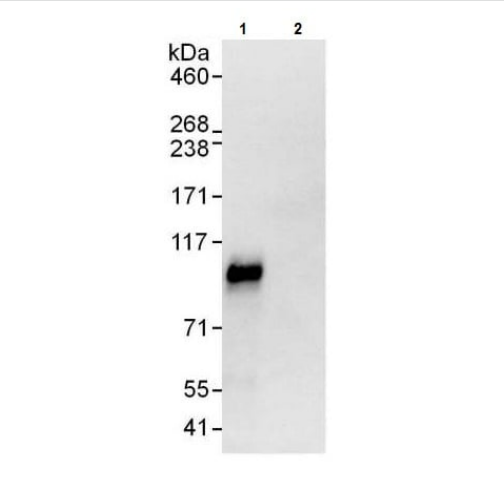
All lanes : Anti-DACH1 antibody (ab226176) at 0.04 µg/ml

Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate at 50 µg
Lane 2 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate at 15 µg
Lane 3 : Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate at 50 µg
Lane 4 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 50 µg

Developed using the ECL technique.

Predicted band size: 79 kDa

Exposure time: 30 seconds



Immunoprecipitation - Anti-DACH1 antibody (ab226176)

DACH1 was immunoprecipitated from HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate (1 mg for IP, 20% of IP loaded) with ab226176 at 6 µg/mg lysate. Western blot was performed from the immunoprecipitate using ab226176 at 1 µg/ml.

Lane 1: ab226176 IP in HEK-293T whole cell lysate.

Lane 2: Control IgG IP in HEK-293T whole cell lysate.

Detection: Chemiluminescence with exposure time of 3 seconds.

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