

Product datasheet

Anti-DACH1 antibody ab222832

2 Images

Overview

<b>Product name</b>	Anti-DACH1 antibody
<b>Description</b>	Rabbit polyclonal to DACH1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse 
<b>Immunogen</b>	Recombinant fragment corresponding to Human DACH1 aa 166-369. Sequence: CGPLPGKPVYSTPSPVENTPQNNECKMVDLRGAKVA SFTVEGCELICLPQ AFDLFLKHLVGGGLHTVYTKLRLEITPVVCNVEQVRILR GLGAIQPGVNR CKLISRKDFETLYNDCTNASSRPGRPPKRTQSVTSPE NSHIMPHSVPGLM SPGIIPPTGLTAAAAAAAAATNAAIAEAMKVKKIKLEAM SNYHASNNQHG ADSE  Database link: <a href="#">Q9UI36</a>   <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	IHC-P: Human kidney tissue. ICC/IF: HepG2 cells.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.4 Preservative: 0.03% Proclin Constituents: 50% Glycerol, PBS
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	>95%

<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab222832** in the following tested applications.

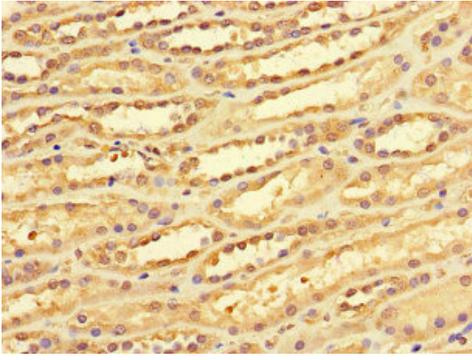
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/20 - 1/200.
ICC/IF		1/50 - 1/200.

## Target

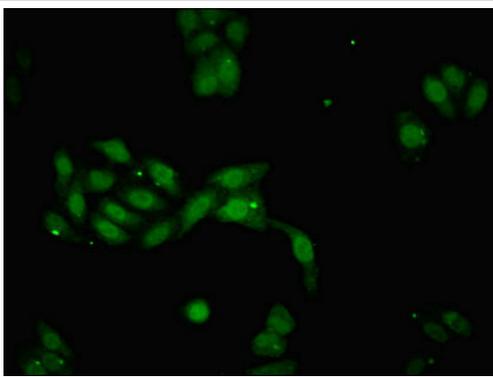
<b>Function</b>	Transcription factor that is involved in regulation of organogenesis. Seems to be a regulator of SIX1, SIX6 and probably SIX5. Corepression of precursor cell proliferation in myoblasts by SIX1 is switched to coactivation through recruitment of EYA3 to the SIX1-DACH1 complex. Transcriptional 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.
<b>Tissue specificity</b>	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.
<b>Sequence similarities</b>	Belongs to the DACH/dachshund family.
<b>Domain</b>	The DACHbox-N/DD1 domain forms a structure containing a DNA binding motif similar to that of the forkhead/winged helix domain.
<b>Cellular localization</b>	Nucleus.

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DACH1 antibody (ab222832)

Paraffin-embedded human kidney tissue stained for DACH1 using ab222832 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence - Anti-DACH1 antibody (ab222832)

HepG2 (human liver hepatocellular carcinoma cell line) cells stained for DACH1 (green) using ab222832 at 1/100 dilution in ICC/IF.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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