

**DACH2 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP13241a****Specification**

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**DACH2 Antibody (N-term) Blocking peptide - Product Information**Primary Accession [Q96NX9](#)**DACH2 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 117154**Other Names**

Dachshund homolog 2, Dach2, DACH2

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody AP13241a was selected from the N-term region of DACH2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**DACH2 Antibody (N-term) Blocking peptide - Protein Information****Name** DACH2**Function**

Transcription factor that is involved in regulation of organogenesis. Seems to be a regulator for SIX1 and SIX6. Seems to act as a corepressor of SIX6 in regulating proliferation by directly repressing cyclin-dependent kinase inhibitors, including the p27Kip1 promoter. Is recruited with SIX6 to the p27Kip1 promoter in embryonal retina. SIX6 corepression seems also to involve NCOR1, TBL1, HDAC1 and HDAC3. May be involved together with PAX3, SIX1, and EYA2 in regulation of myogenesis. In the developing somite, expression of DACH2 and PAX3 is regulated by the overlying ectoderm, and DACH2 and PAX3 positively regulate each other's expression (By similarity). Probably binds to DNA via its DACHbox-N domain.

**Cellular Location**

Nucleus.

## **DACH2 Antibody (N-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

## **DACH2 Antibody (N-term) Blocking peptide - Images**

## **DACH2 Antibody (N-term) Blocking peptide - Background**

This gene is one of two genes which encode a protein similar to the Drosophila protein dachshund, a transcription factor involved in cell fate determination in the eye, limb and genital disc of the fly. The encoded protein contains two characteristic dachshund domains: an N-terminal domain responsible for DNA binding and a C-terminal domain responsible for protein-protein interactions. This gene is located on the X chromosome and is subject to inactivation by DNA methylation. The encoded protein may be involved in regulation of organogenesis and myogenesis, and may play a role in premature ovarian failure. Multiple transcript variants encoding different isoforms have been found for this gene.

## **DACH2 Antibody (N-term) Blocking peptide - References**

Bailey, S.D., et al. Diabetes Care (2010) In press : Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009) Styrkarsdottir, U., et al. Nat. Genet. 41(1):15-17(2009) Poulin, F., et al. Genomics 85(6):774-781(2005) Bione, S., et al. Hum. Reprod. 19(12):2759-2766(2004)