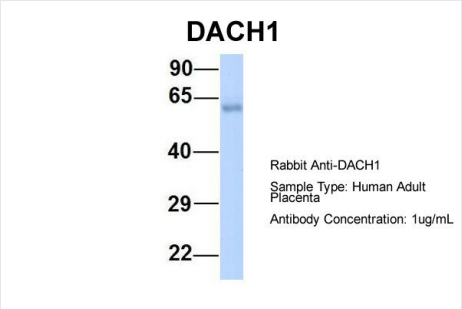
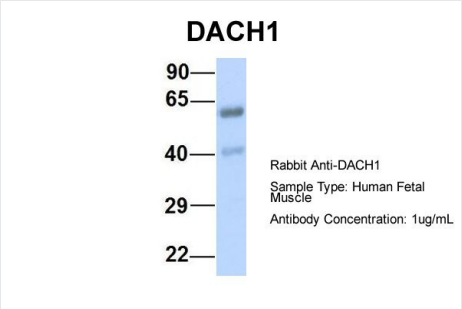
DACH1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

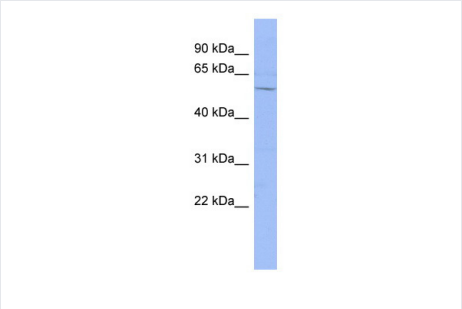
Product Name	DACH1, Polyclonal Antibody
Full Product Name	DACH1 antibody - N-terminal region
Product Gene Name	anti-DACH1 antibody
Product Synonym Gene Name	DACH; FLJ10138
Immunogen Sequence	Synthetic peptide located within the following region: MAVPAALIPP TQLVPPQPPI STSASSSGTT TSTSSATSSP APSIGPPASS
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Pig, Yeast
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity Purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	DACH1 peptide (MBS3229807) is used for blocking the activity of DACH1 antibody (MBS3204842)
Molecular Weight	57kDa
OMIM	603803
3D Structure	ModBase 3D Structure for Q9UI36
Homology	Human: 100%; Mouse: 100%; Pig: 93%; Yeast: 79%
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human DACH1
Product Categories/Family for anti-DACH1 antibody	Polyclonal; Transcription Factor; Transcription Regulation; Chromatin & Nuclear Signaling; Developmental Biology; Various; Epigenetics; DNA/RNA/Protein Interactions; Transcription Factors
Applications Tested/Suitable for anti-DACH1 antibody	Western Blot (WB)
Related Product Information for anti-DACH1 antibody	This is a rabbit polyclonal antibody against DACH1. It was validated on Western Blot using a cell lysate as a positive control. Target Description: This gene encodes a chromatin-associated protein that associates with other DNA-binding transcription factors to regulate gene expression and cell fate determination during development. The protein contains a Ski domain that is highly conserved from Droso
Other Notes	Small volumes of anti-DACH1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DACH1 purchase	MBS3204842 is an antibody targeting DACH1. Also known as DACH1 antibody - N-terminal region. Reactive in Human, Mouse, Pig, Yeast. Host: Rabbit.



Western Blot (WB) of anti-DACH1 antibody
Host: RabbitTarget Name: DACH1Sample Type: Human Adult PlacentaAntibody Dilution: 1.0ug/ml



Western Blot (WB) of anti-DACH1 antibody
Host: RabbitTarget Name: DACH1Sample Type: Human Fetal MuscleAntibody Dilution: 1.0ug/ml



Western Blot (WB) of anti-DACH1 antibody
WB Suggested Anti-DACH1 Antibody Titration: 0.2-1 ug/mlELISA Titer: 1:62500Positive Control: HT1080 cell lysate

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DACH1. It may not necessarily be applicable to this product.

NCBI GI #	628601845
NCBI GeneID	1602
NCBI Accession #	NP_542938
UniProt Primary Accession #	Q9UI36
UniProt Related Accession #	Q9UI36
GenBank Nucleotide #	NM_080760
NCBI Official Full Name	dachshund homolog 1 isoform b
NCBI Official Synonym Full Names	dachshund family transcription factor 1
NCBI Official Symbol	DACH1
NCBI Official Synonym Symbols	DACH
UniProt Protein Name	Dachshund homolog 1
Protein Family	Dachshund
UniProt Gene Name	DACH1
UniProt Synonym Gene Names	DACH; Dach1
UniProt Entry Name	DACH1_HUMAN
NCBI Protein Information	dachshund homolog 1

NCBI Summary for DACH1	This gene encodes a chromatin-associated protein that associates with other DNA-binding transcription factors to regulate gene expression and cell fate determination during development. The protein contains a Ski domain that is highly conserved from Drosophila to human. Expression of this gene is lost in some forms of metastatic cancer, and is correlated with poor prognosis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]
UniProt Comments for DACH1	DACH1: 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. Inhibits TGF-beta signaling through interaction with SMAD4 and NCOR1. Binds to chromatin DNA via its DACHbox-N domain. Belongs to the DACH/dachshund family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor; Motility/polarity/chemotaxis; DNA-binding Chromosomal Location of Human Ortholog: 13q22 Cellular Component: nucleoplasm; transcription factor complex; intracellular membrane-bound organelle; cytoplasm; nucleolus; nucleus Molecular Function: protein binding; DNA binding Biological Process: cell proliferation; development of primary female sexual characteristics; suckling behavior; negative regulation of fibroblast proliferation; respiratory gaseous exchange; negative regulation of transcription from RNA polymerase II promoter; transcriptional preinitiation complex assembly; negative regulation of cell migration
Research Articles on DACH1	**1.** DACH1 and CD44 inversely related in breast cancer, different grade tumors and different subtypes. DACH1 was negatively associated with CD44 in vitro and vivo. DACH1 served as a good prognostic marker, and CD44 was an unfavorable element of breast cancer patients.
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