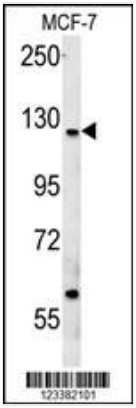
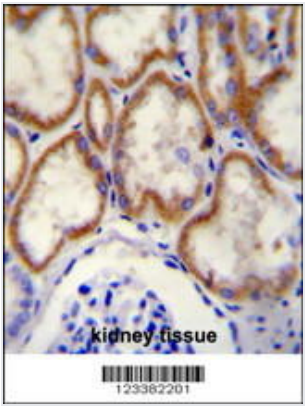
CUX1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

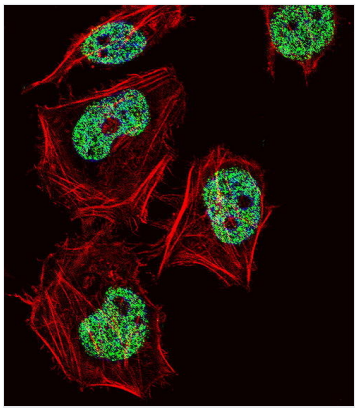
Product Name	CUX1, Polyclonal Antibody
Full Product Name	CUX1, CT (CUX1, CUTL1, Homeobox protein cut-like 1, CCAAT displacement protein, Homeobox protein cux-1) (AP)
Product Gene Name	anti-CUX1 antibody
Product Synonym Names	CUX1; CUTL1; Homeobox protein cut-like 1; CCAAT displacement protein; Homeobox protein cux-1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	77,455 Da
OMIM	116896
3D Structure	ModBase 3D Structure for P39880
Immunogen	CUX1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1354-1382 amino acids from the C-terminal region of human CUX1.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-CUX1 antibody	Antibodies; Transcription Factors; Zinc; Ring; Homeobox
Applications Tested/Suitable for anti-CUX1 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-CUX1 antibody	IHC: 1:50-100 ELISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-CUX1 antibody	MBS6290100 is an antibody targeting CUX1. Also known as CUX1, CT (CUX1, CUTL1, Homeobox protein cut-like 1, CCAAT displacement protein, Homeobox protein cux-1) (AP). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-CUX1 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.



Western Blot (WB) of anti-CUX1 antibody
CUX1 Antibody (C-term) western blot analysis in MCF-7 cell line lysates (35ug/lane).This demonstrates the CUX1 antibody detected the CUX1 protein (arrow).



Immunohistochemistry (IHC) of anti-CUX1 antibody
CUX1 Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CUX1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Immunofluorescence (IF) of anti-CUX1 antibody
Fluorescent confocal image of Hela cell stained with CUX1 Antibody (C-term).Hela cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with CUX1 primary antibody (1:25, 1 h at 37 degree C). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree C).Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree C). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). CUX1 immunoreactivity is localized to Nucleus significantly.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CUX1. It may not necessarily be applicable to this product.

NCBI GI #	148277064
NCBI GeneID	1523
NCBI Accession #	NP_853530.2
UniProt Primary Accession #	P39880
UniProt Secondary Accession #	Q6NYH4; Q75LE5; Q75MT2; Q75MT3; Q86UJ7; Q9UEV5; B3KV79; J3KQV9
UniProt Related Accession #	Q13948; P39880
GenBank Nucleotide #	NM_181552.3
NCBI Official Full Name	protein CASP isoform a
NCBI Official Synonym Full Names	cut like homeobox 1
NCBI Official Symbol	CUX1
NCBI Official Synonym Symbols	CDP; CUX; p75; CASP; CDP1; COY1; Clox; p100; p110; p200; CUTL1; GOLIM6; CDP/Cut; Cux/CDP; Nbla10317

UniProt Protein Name	Homeobox protein cut-like 1
UniProt Synonym Protein Names	CCAAT displacement protein; CDP; Homeobox protein cux-1
Protein Family	Homeobox protein
UniProt Gene Name	CUX1
UniProt Synonym Gene Names	CUTL1; CDP
UniProt Entry Name	CUX1_HUMAN
NCBI Protein Information	protein CASP
NCBI Summary for CUX1	The protein encoded by this gene is a member of the homeodomain family of DNA binding proteins. It may regulate gene expression, morphogenesis, and differentiation and it may also play a role in the cell cycle progession. Several alternatively spliced transcript variants encoding different isoforms have been identified.[provided by RefSeq, Feb 2011]
UniProt Comments for CUX1	CUTL1: Probably has a broad role in mammalian development as a repressor of developmentally regulated gene expression. May act by preventing binding of positively-activing CCAAT factors to promoters. Component of nf-munr repressor; binds to the matrix attachment regions (MARs) (5' and 3') of the immunoglobulin heavy chain enhancer. Represses T-cell receptor (TCR) beta enhancer function by binding to MARbeta, an ATC-rich DNA sequence located upstream of the TCR beta enhancer. Belongs to the CUT homeobox family. 8 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 7q22.1 Cellular Component: integral to Golgi membrane; nucleus; cytosol Molecular Function: sequence-specific DNA binding; chromatin binding Biological Process: regulation of transcription from RNA polymerase II promoter; intra-Golgi vesicle-mediated transport; transcription, DNA-dependent; multicellular organismal development; auditory receptor cell differentiation; positive regulation of transcription from RNA polymerase II promoter; positive regulation of dendrite morphogenesis; negative regulation of transcription from RNA polymerase II promoter; kidney development; lung development
Research Articles on CUX1	**1.** Results show that Cux1 is expressed in cerebellar granule cell precursors and downregulated as they terminally differentiate; coexpression analysis in human medulloblastomas suggests another function related to DNA integrity and stability
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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