

**Anti-CUX1 Antibody**  
**Catalog # AP53663****Specification**

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**Anti-CUX1 Antibody - Product Information**

Application	WB, IF, IHC
Primary Accession	<a href="#">P39880</a>
Other Accession	<a href="#">Q13948</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	164187

**Anti-CUX1 Antibody - Additional Information****Gene ID** 1523**Other Names**

CUX1; CUTL1; Homeobox protein cut-like 1; CCAAT displacement protein; CDP; Homeobox protein cux-1; CUX1; CUTL1; Protein CASP

**Target/Specificity**

Recognizes endogenous levels of CUX1 protein.

**Dilution**

WB~~1/500 - 1/1000

IF~~1/50 - 1/200

IHC~~1:100~500

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C.Stable for 12 months from date of receipt

**Anti-CUX1 Antibody - Protein Information****Name** CUX1 ([HGNC:2557](#))**Synonyms** CUTL1**Function**

Transcription factor involved in the control of neuronal differentiation in the brain. Regulates dendrite development and branching, and dendritic spine formation in cortical layers II-III. Also involved in the control of synaptogenesis. In addition, it has probably a broad role in mammalian development as a repressor of developmentally regulated gene expression. May act by preventing binding of positively-activating 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. Binds to the TH enhancer; may require the basic helix-loop-helix protein TCF4 as a coactivator.

#### Cellular Location

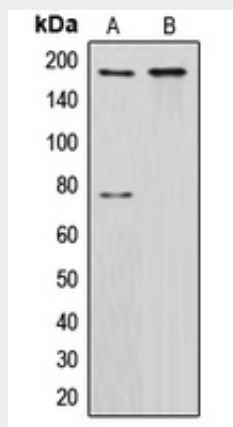
Nucleus.

#### Anti-CUX1 Antibody - Protocols

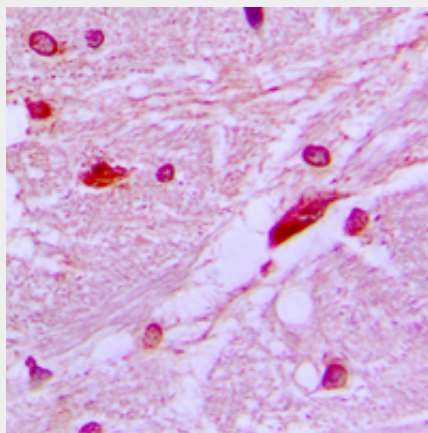
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Anti-CUX1 Antibody - Images

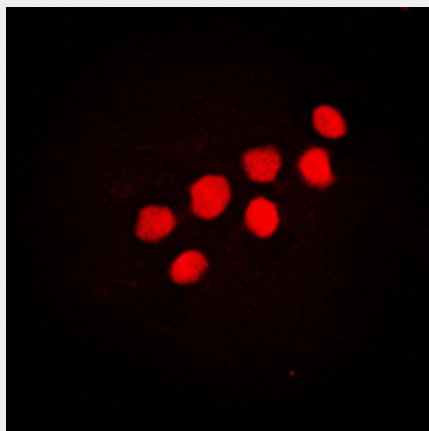


Western blot analysis of CUX1 expression in HeLa (A), NIH3T3 (B) whole cell lysates.



Immunohistochemical analysis of CUX1 staining in human brain formalin fixed paraffin embedded

tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of CUX1 staining in NIH3T3 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

#### **Anti-CUX1 Antibody - Background**

Rabbit polyclonal antibody to CUX1