



## Rabbit Anti-Cux2 antibody

SL11832R

<b>Product Name:</b>	Cux2
<b>Chinese Name:</b>	转录同源蛋白质CUX2抗体
<b>Alias:</b>	CDP2; Cut like homeobox 2; Cut-like 2; CUTL2; CUX2; Homeobox protein cut-like 2; Homeobox protein cux 2; Homeobox protein Cux-2; KIAA0293; CUX2_HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Sheep,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1ug/testICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	162kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Cux2:1001-1085/1486
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	Cux2 is a marker for cortical subpopulations. Cux2 is an orthologue of the Drosophila cut gene, which encodes a homeodomain protein involved in neuronal specification. During cortical development Cux2 identifies two subpopulations with different spatial origins, migratory behaviours and phenotypic characteristics: (i) a population of interneurons, which invades the pallium from the subpallium; and (ii) a neuronal population produced in the pallium around embryonic day 11.5, which divides in the

SVZ and accumulates in the intermediate zone (IZ). Subsequently, Cux2 is a marker of upper cortical layers.

**Function:**

May be a transcription factor involved in neural specification. Binds to DNA in a sequence-specific manner

**Subcellular Location:**

Nuclear

**Similarity:**

Belongs to the CUT homeobox family.

Contains 3 CUT DNA-binding domains.

Contains 1 homeobox DNA-binding domain.

**SWISS:**

O14529

**Gene ID:**

23316

**Database links:**

[Entrez Gene: 23316](#)Human

[Entrez Gene: 13048](#)Mouse

[Entrez Gene: 288665](#)Rat

[Omim: 610648](#)Human

[SwissProt: O14529](#)Human

[SwissProt: P70298](#)Mouse

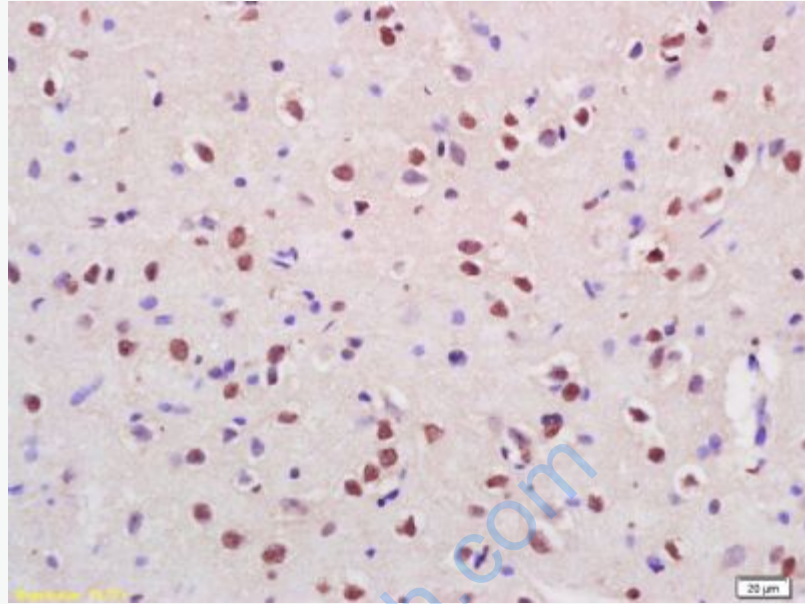
[Unigene: 124953](#)Human

[Unigene: 156172](#)Mouse

[Unigene: 332661](#)Mouse

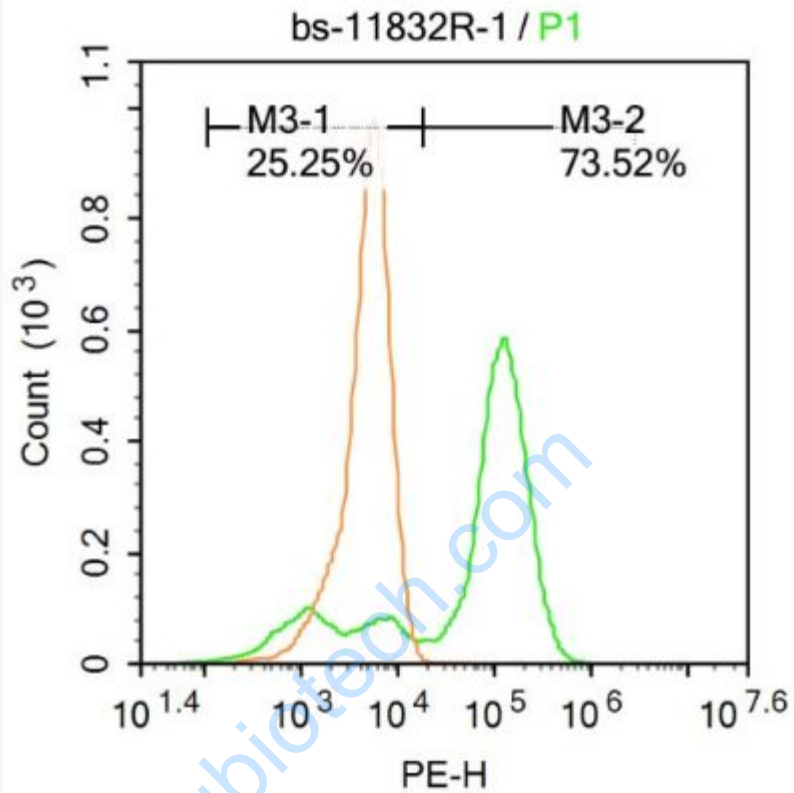
**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



**Picture:**

Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-Cux2 Polyclonal Antibody, Unconjugated(SL11832R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



U-937 cells were fixed with 4% PFA for 10min at room temperature, permeabilized with 90% ice-cold methanol for 20 min at room temperature, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with Cux2 Antibody(SL11832R) at 1:100 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2% BSA in PBS, followed by secondary antibody incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).