

Cux2 Rabbit pAb

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Catalog # AP57994

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O14529
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	161677
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Cux2
Epitope Specificity	741-840/1486
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nuclear
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	23316
Other Names	Homeobox protein cut-like 2, Homeobox protein cux-2, CUX2, CUTL2, KIAA0293
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

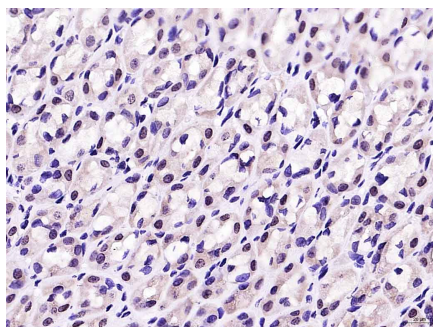
Protein Information

Name	CUX2
Synonyms	CUTL2, KIAA0293
Function	Transcription factor involved in the control of neuronal proliferation and differentiation in the brain. Regulates dendrite development and branching, dendritic spine formation, and synaptogenesis in cortical layers II-III. Binds to DNA in a sequence- specific manner.
Cellular Location	Nucleus {ECO:0000255 PROSITE-ProRule:PRU00108, ECO:0000255 PROSITE-ProRule:PRU00374}

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (rat stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cux2) Polyclonal Antibody, Unconjugated (AP57994) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.