Product Name: Emx2 Rabbit Polyclonal Antibody
Catalog #: APRab10451

Summary

Production Name	Emx2 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC,ELISA
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	EMX2
Alternative Names	EMX2; Homeobox protein EMX2; Empty spiracles homolog 2; Empty spiracles-like protein 2
Gene ID	2018.0
SwissProt ID	Q04743.The antiserum was produced against synthesized peptide derived from human EMX2. AA range:91-140

Application

Dilution Ratio	IHC 1:100-1:300 ELISA: 1:20000
Molecular Weight	

Background

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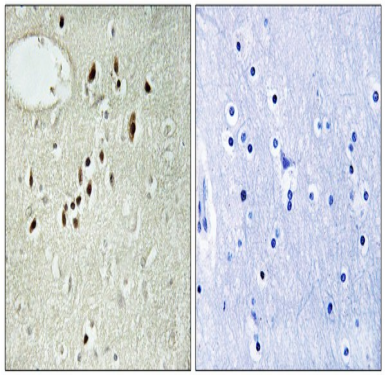
This gene encodes a homeobox-containing transcription factor that is the homolog to the 'empty spiracles' gene in Drosophila. Research on this gene in humans has focused on its expression in three tissues: dorsal telencephalon, olfactory neuroepithelium, and urogenetial system. It is expressed in the dorsal telencephalon during development in a low rostral-lateral to high caudal-medial gradient and is proposed to pattern the neocortex into defined functional areas. It is also expressed in embryonic and adult olfactory neuroepithelia where it complexes with eukaryotic translation initiation factor 4E (eIF4E) and possibly regulates mRNA transport or translation. In the developing urogenital system, it is expressed in epithelial tissues and is negatively regulated by HOXA10. Alternative splicing results in multiple transcript variants encoding distinct proteins.[provided by RefSeq, Sedisease:Defects in EMX2 are the cause of schizencephaly [MIM:269160]. Schizencephaly is an extremely rare human congenital disorder characterized by a full-thickness cleft within the cerebral hemispheres. These clefts are lined with gray matter and most commonly involve the parasylvian regions. Large portions of the cerebral hemispheres may be absent and replaced by cerebro-spinal fluid.,function:Transcription factor, which in cooperation with EMX2, acts to generate the boundary between the roof and archipallium in the developing brain. May function in combinations with OTX1/2 to specify cell fates in the developing central nervous system.,similarity:Belongs to the EMX homeobox family.,similarity:Contains 1 homeobox DNA-binding domain.,tissue specificity:Cerebral cortex.,

Research Area

Image Data



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using EMX2 Antibody. The picture on the right is blocked with the synthesized peptide.

Note

For research use only.