

EMX2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP5542C

Specification

EMX2 Antibody (Center) - Product Information

Application WB, FC,E Primary Accession Q04743

Other Accession <u>004744, 017R00, NP 004089.1</u>

Reactivity Human

Predicted Bovine, Mouse

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 28303
Antigen Region 111-138

EMX2 Antibody (Center) - Additional Information

Gene ID 2018

Other Names

Homeobox protein EMX2, Empty spiracles homolog 2, Empty spiracles-like protein 2, EMX2

Target/Specificity

This EMX2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 111-138 amino acids from the Central region of human EMX2.

Dilution

WB~~1:1000 FC~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

EMX2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

EMX2 Antibody (Center) - Protein Information

Name EMX2





Tel: 858.875.1900 Fax: 858.875.1999

Function Transcription factor, which in cooperation with EMX1, acts to generate the boundary between the roof and archipallium in the developing brain. May function in combination with OTX1/2 to specify cell fates in the developing central nervous system.

Cellular Location

Nucleus {ECO:0000250|UniProtKB:Q04744}. Cell projection, axon {ECO:0000250|UniProtKB:Q04744}. Note=Detected in axons within the olfactory mucosa and glomeruli in the olfactory bulb {ECO:0000250|UniProtKB:Q04744}

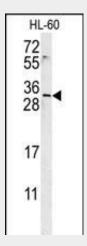
Tissue Location Cerebral cortex.

EMX2 Antibody (Center) - Protocols

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

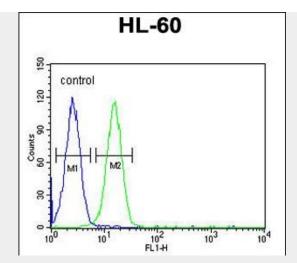
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

EMX2 Antibody (Center) - Images



EMX2 Antibody (Center) (Cat. #AP5542c) western blot analysis in HL-60 cell line lysates (15ug/lane). This demonstrates the EMX2 antibody detected the EMX2 protein (arrow).





EMX2 Antibody (Center) (Cat. #AP5542c) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

EMX2 Antibody (Center) - Background

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.

EMX2 Antibody (Center) - References

Inkster, B., et al. Neuroimage (2010) In press:
Bayatti, N., et al. Eur. J. Neurosci. 28(8):1449-1456(2008)
Merello, E., et al. Am. J. Med. Genet. A 146A (9), 1142-1150 (2008):
Treloar, S.A., et al. Mol. Hum. Reprod. 13(8):587-594(2007)