10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

EMX2 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP5542c

Specification

EMX2 Antibody (Center) Blocking peptide - Product Information

Primary Accession	Q04743
Other Accession	NP_004089.1

EMX2 Antibody (Center) Blocking peptide - Additional Information

Gene ID 2018

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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

EMX2 Antibody (Center) Blocking peptide - Protein Information

Name EMX2

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) Blocking peptide - Protocols

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

- Blocking Peptides

EMX2 Antibody (Center) Blocking peptide - Images

EMX2 Antibody (Center) Blocking peptide - Background

This gene encodes a homeobox-containing transcriptionfactor that is the homolog to the 'empty spiracles' gene inDrosophila. Research on this gene in humans has focused on itsexpression in three tissues: dorsal telencephalon, olfactoryneuroepithelium, and urogenetial system. It is expressed in thedorsal telencephalon during development in a low rostral-lateral tohigh caudal-medial gradient and is proposed to pattern theneocortex into defined functional areas. It is also expressed inembryonic and adult olfactory neuroepithelia where it complexeswith eukaryotic translation initiation factor 4E (eIF4E) andpossibly regulates mRNA transport or translation. In the developingurogenital system, it is expressed in epithelial tissues and isnegatively regulated by HOXA10. Alternative splicing results inmultiple transcript variants encoding distinct proteins.

EMX2 Antibody (Center) Blocking peptide - 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)