

Datasheet for 600-401-BA1**EMX2 Antibody****Overview**

Description:	Anti-EMX2 (RABBIT) Antibody - 600-401-BA1
Item No.:	600-401-BA1
Size:	100 µg
Applications:	ELISA, IHC
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	EMX2, like its closely related homolog EMX1, is a homeobox transcription factor involved in specifying cell fates in the developing central nervous system and participates in the development of olfactory neurons. EMX2 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.
Synonyms:	EMX2 Antibody, Homeobox protein EMX2, Empty spiracles homolog 2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	EMX2
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-EMX2 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 16 amino acid synthetic peptide near the N-terminus of human EMX2.

Purity/Specificity: Anti-EMX2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least two isoforms of EMX2 are known to exist; this antibody will detect both isoforms. EMX2 antibody is predicted to not cross-react with EMX1.

Relevant Links:

- [UniProtKB - Q04743](#)
- [GeneID - 2018](#)
- [NCBI - NP_001159396.1](#)

Application Details

Tested Applications: ELISA, IHC

Application Note: Anti-EMX2 Antibody has been tested for use in ELISA and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 28 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: User Optimized

IHC: 5 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

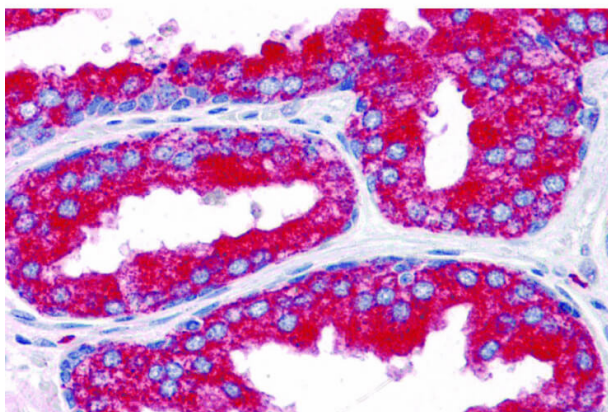
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of EMX2 antibody. Tissue: Human prostate tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: EMX2 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: EMX2 is cytoplasmic. Staining: EMX2 as precipitated red signal with hematoxylin purple nuclear counterstain.

Disclaimer

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