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Datasheet for 600-401-BA2

EMX2 Antibody

Overview

Description:	Anti-EMX2 (RABBIT) Antibody - 600-401-BA2
Item No.:	600-401-BA2
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
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 18 amino acid synthetic peptide near the internal region 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, IF, IHC, WB
Application Note:	Anti-EMX2 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. 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:	1:10,000 - 1:20,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	1-2 µg/mL

Formulation

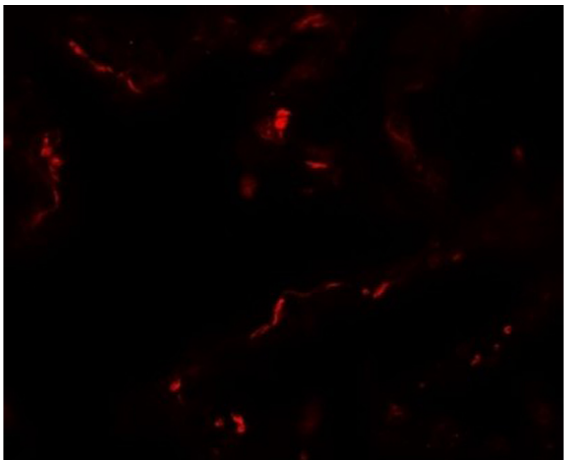
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

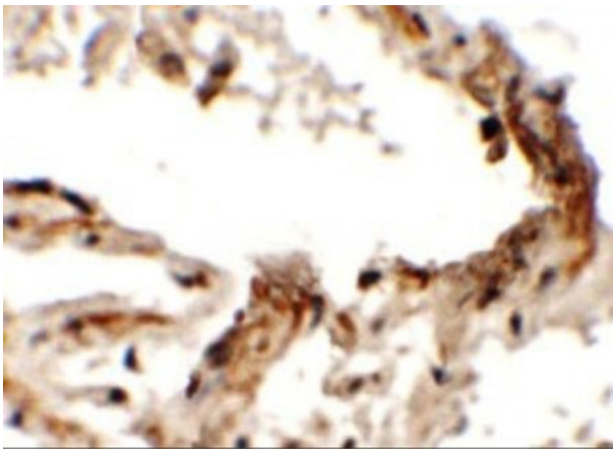
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several 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.

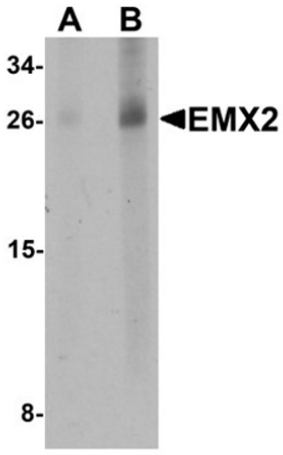
Images



Immunofluorescence Microscopy
Immunofluorescence of EMX2.
Tissue: human lung tissue.
Primary Antibody: EMX2 antibody at 20 µg/mL.



Immunohistochemistry
Immunohistochemistry of EMX2.
Tissue: human lung tissue.
Primary Antibody: EMX2 antibody at 2.5 µg/mL.



Western Blot
Western blot analysis of EMX2.
Load: human lung tissue lysate.
Primary Antibody: EMX2 antibody at (A) 1 and (B) 2 µg/mL.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.