

**EMX2 Antibody****Tested Species Reactivity**

Human (Hu)  
 Mouse (Ms)  
 Rat (Rt)

**Tested Applications**

Tested Applications	Dilution *
Western Blot (WB)	1:200-1:1000
Immunohistochemistry (IHC)	1:200-1:1000

\* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

**Details**

<b>Catalog Number:</b>	PA1-28062
<b>Size:</b>	50 µg
<b>Class:</b>	Polyclonal
<b>Type:</b>	Antibody
<b>Clone:</b>	
<b>Host / Isotype:</b>	Rabbit / IgG
<b>Immunogen:</b>	synthetic peptide PSSHSPHPLFASQQRDPS conjugated to BSA, corresponding to amino acids 100-117 of Human EMX2.

**Form Information**

<b>Form:</b>	Liquid
<b>Concentration:</b>	1mg/ml
<b>Purification:</b>	Antigen affinity chromatography
<b>Storage Buffer:</b>	PBS with 50% Ammonium sulfate
<b>Preservative:</b>	no preservative
<b>Storage Conditions:</b>	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**Product Specific Information**

PA1-28062 detects EMX2 from human, mouse, rat samples.

PA1-28062 has been successfully used in immunohistochemistry and Western blot applications.

The PA1-28062 immunogen is synthetic peptide: PSSHSPHPLFASQQRDPS conjugated to BSA, corresponding to amino acids 100-117 of Human EMX2.

Store at 4°C short term. For extended storage, store at -20°C, avoiding freeze/thaw cycles.

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**General Information**

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 urogenital 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.

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