

Recombinant Human EMX2 Protein, GST-tagged

Cat. No. EMX2-3296H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human EMX2 full-length ORF (NP_004089.1, 1 a.a. - 252 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	<p>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.[provided by RefSeq, Sep 2009]</p>
Molecular Mass	54.12 kDa
AA Sequence	<p>MFQPAPKRCFTIESLVAKDSPLPASRSEDPIRPAALSYANSSPINPFLNGFHSA AAAAA AGRGVYSNPDLVFAEAVSHPPNPAVPVHPVPPHALAAHPLPSSHSPHPLFASQQR DPSTFYPWLIHRYRYLGHFRFQGNDTSPESFLLHNALARKPKRIRTA FSPSQLLRLEH</p>

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AFEKNHYVVGAERKQLAHSLSLTETQVKVWFQNRRTKFKRQKLEEEGSDSQQKKK
GTHHINRWRIATKQASPEEIDVTSD

Applications
Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [EMX2 empty spiracles homeobox 2 \[Homo sapiens \]](#)

Official Symbol [EMX2](#)

Synonyms EMX2; empty spiracles homeobox 2; empty spiracles homolog 2 (Drosophila); homeobox protein EMX2; empty spiracles homolog 2; empty spiracles-like protein 2;

Gene ID [2018](#)

mRNA Refseq [NM_001165924](#)

Protein Refseq [NP_001159396](#)

MIM [600035](#)

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UniProt ID

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