

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	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]
Molecular Mass	54.12 kDa
AA Sequence	MFQPAPKRCFTIESLVAKDSPLPASRSEDPIRPAALSYANSSPINPFLNGFHSAAAAA AGRGVYSNPDLVFAEAVSHPPNPAVPVHPVPPPHALAAHPLPSSHSPHPLFASQQR DPSTFYPWLIHRYRYLGHRFQGNDTSPESFLLHNALARKPKRIRTAFSQSLLRLEH

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AFEKNHYVVGAERKQLAHSLSLTETQVKVWFQNRRTKFKRQKLEEEGSDSQQKKK
GTHHINRWRIATKQASPEEIDVTSDD

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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