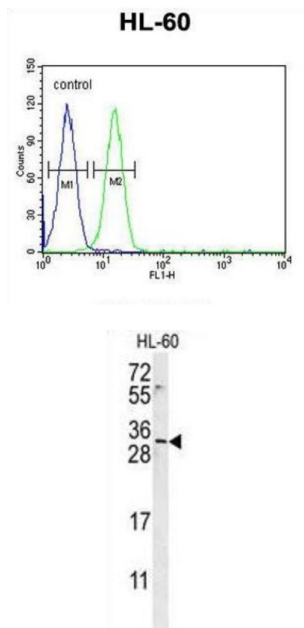


## Empty Spiracles Homeobox 2 (EMX2) Antibody

Catalogue No.: abx032553



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.

**Target:** Empty Spiracles Homeobox 2 (EMX2)

**Clonality:** Polyclonal

**Reactivity:** Human

**Tested Applications:** ELISA, WB, FCM

**Host:** Rabbit

**Recommended dilutions:** WB: 1/1000, FCM: 1/10 - 1/50. Optimal dilutions/concentrations should be determined by the end user.

**Conjugation:** Unconjugated

**Immunogen:** KLH-conjugated synthetic peptide between 111-138 amino acids from the Central region of human EMX2.

# Datasheet

Version: 4.0.0  
Revision date: 05 Jun 2025



|                            |  |
|----------------------------|--|
| <b>Isotype:</b>            | IgG  |
| <b>Form:</b>               | Liquid   |
| <b>Purification:</b>       | Purified through a protein A column, followed by peptide affinity purification.  |
| <b>Storage:</b>            | Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.   |
| <b>UniProt Primary AC:</b> | Q04743 ( <a href="#">UniProt</a> , <a href="#">ExPASy</a> )  |
| <b>KEGG:</b>               | hsa:2018   |
| <b>String:</b>             | <a href="#">9606.ENSP00000450962</a>   |
| <b>Molecular Weight:</b>   | Calculated MW: 28.3 kDa  |
| <b>Buffer:</b>             | PBS containing 0.09% sodium azide.   |
| <b>Specificity:</b>        | Predicted to react with Mouse and Cow EMX2.  |
| <b>Note:</b>               | THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION. |

For Reference Only