

## DESCRIPTION

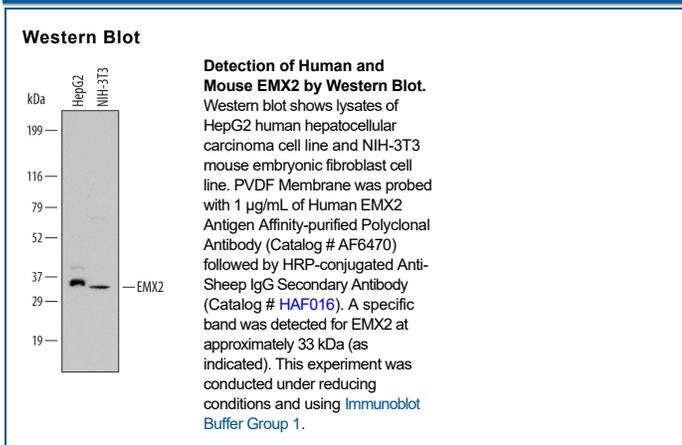
<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	Detects human EMX2 in Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human EMX2 Asn49-Ser143 Accession # Q04743
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

## APPLICATIONS

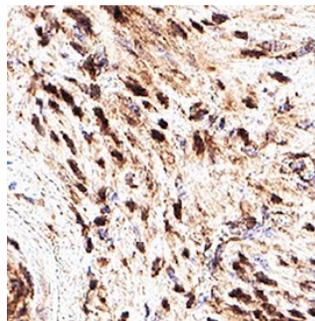
**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the [Technical Information](#) section on our website.

	Recommended Concentration	Sample
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	Immersion fixed paraffin-embedded sections of uterus

## DATA



## Immunocytochemistry



**Detection of EMX2 in Uterus.** EMX2 was detected in immersion fixed paraffin-embedded sections of uterus using Sheep Anti-Human/Mouse EMX2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6470) at 1 µg/ml overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to nucleus. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.2 mg/mL.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

EMX-2 (also Empty spiracles homolog 2) is a 30-33 kDa member of the EMX homeobox family of molecules. It is expressed in embryonic neural stem and progenitor cells, and promotes their commitment to a neuronal phenotype. In a more global sense, it also promotes the formation of networks that favor visual sensation. In the adult, EMX-2 is found in neural stem cells where it acts to maintain a pool of available stem cells. Human EMX-2 is 252 amino acids (aa) in length. It contains one poly-Ala region (aa 54-59) and a DNA-binding homeobox domain (aa 154-213). There is one potential splice variant that shows a 33 aa substitution for aa 137-252. Over aa 59-143, human EMX-2 shares 98% aa identity with mouse EMX-2.