

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human EMX2 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human EMX2 Asn49-Ser143 Accession # Q04743
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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