

PRODUCT INFORMATION

Product name : EMX2 antibody

Product type : Primary antibodies

Description : Rabbit polyclonal to EMX2

Immunogen : 3 synthetic peptides (human) conjugated to KLH

Reacts with : Hu, Ms

Tested applications : ELISA and WB

GENE INFORMATION

Gene Symbol : EMX2

Gene Name : empty spiracles homeobox 2

Ensembl ID : ENSG00000170370

Entrez GeneID : 2018

GenBank Accession number : AF301598

Omim ID : 600035

Swiss-Prot : Q04743

Molecular weight of EMX2 : 28.3kDa

Function : Transcription factor, which in cooperation with EMX2, acts to generate the boundary between the roof and archipallium in the developing brain. May function in combinations with OTX1/2 to specify cell fates in the developing central nervous system.

Expected subcellular localization : Nucleus

Expected tissue specificity : Cerebral cortex

Summary : The homeodomain transcription factor EMX2 is critical for central nervous system and urogenital development. EMX1 (MIM 600034) and EMX2 are related to the 'empty spiracles' gene expressed in the developing Drosophila head. [supplied by OMIM]

APPLICATION NOTE

Recommended dilution :

- **ELISA:** Antibody specificity was verified by direct ELISA against the 3 immunogen peptides. A titer of 1/12000 has been determined. Appropriate specificity controls were run.
- **WB:** 1/5000.

Optimal dilutions/concentration should be determined by the end user.

Raised in : Rabbit

Clonality : Polyclonal

Isotype : IgG

Purity : Purified Antibody

Storage buffer : 0.5 X PBS, containing a final concentration of 50% Glycerol, 0.1% BSA and 0.01% Thimerosal.

Form : Liquid

Storage instruction : Store at -20°C or -80°C. Avoid repeated freeze / thaw cycles

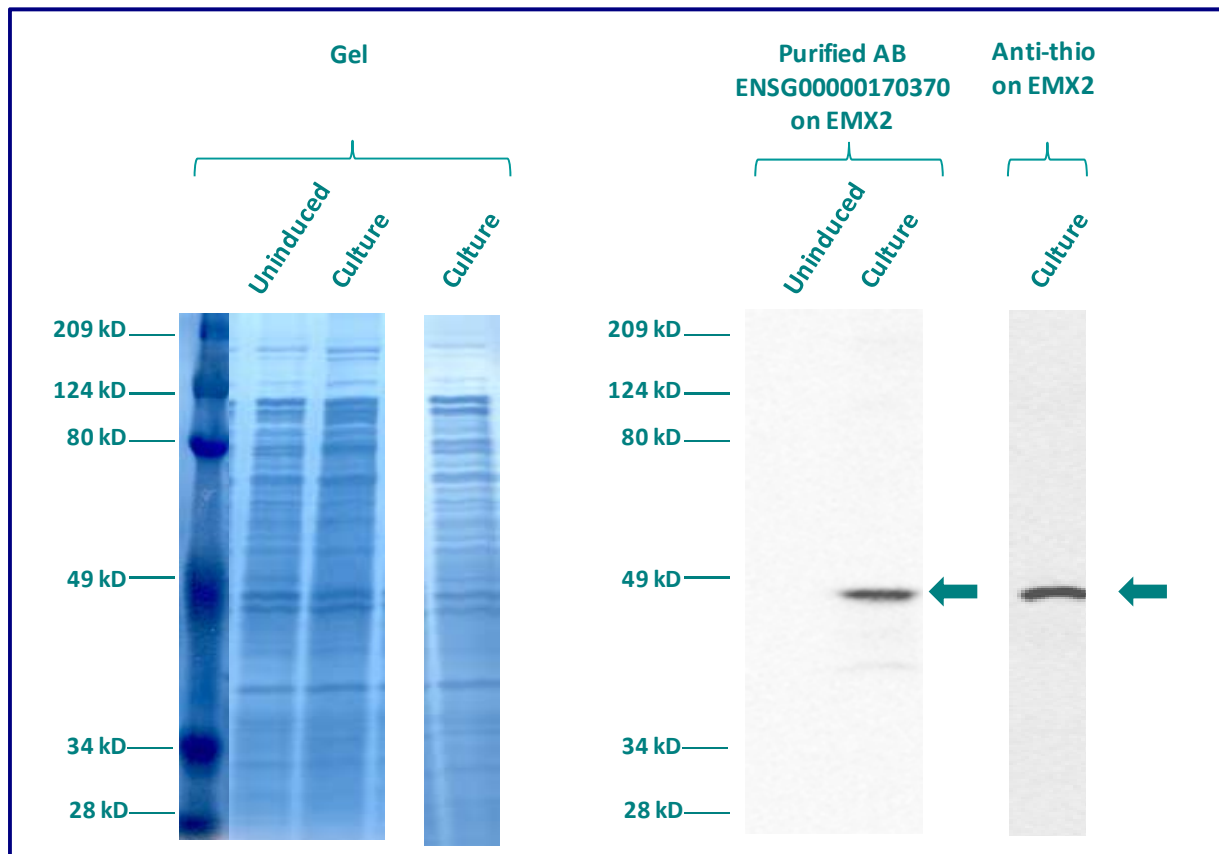
WESTERN BLOT ON RECOMBINANT PROTEIN

The purified antibody ENSG00000170370 has been tested at 1/5000 on uninduced (negative control) and induced culture of E.coli (one shot Top10 competent cells).

An anti-thio (positive control) has been tested at 1/5000 on uninduced (negative control) and induced culture of E.coli (one shot Top10 competent cells) as a positive control.

Plasmid name : pBAD-DEST49.

Molecular weight of EMX2 : 42.3kDa (28.3kDa + another 14kDa for the tag).



Gel concentration: 10%

Blocking: in 5% non-fat milk-PBST solution

1st Antibody: The antibodies are diluted in blocking buffer.

- Dilute the purified antibody ENSG00000170370 at 1:5000
- Dilute the anti-thio at 1:5000

60 minutes of incubation

2nd Antibody: The antibody is diluted in blocking buffer.

- Dilute the anti-Rabbit IgG HRP conjugated at 1/10000
- 60 minutes of incubation