PRODUCT INFORMATION

Product name: ALX4 antibody

Product type: Primary antibodies

Description: Rabbit polyclonal to ALX4

Immunogen: 3 synthetic peptides (human) conjugated to KLH

Reacts with: Human, Mouse

Tested applications: ELISA, WB and IF

GENE INFORMATION

Gene Symbol: ALX4

Gene Name: aristaless-like homeobox 4

Ensembl ID: ENSG00000052850

Entrez GeneID: 60529

GenBank Accession number: AF294629

Omim ID: 605420 Swiss-Prot: Q9H161

Molecular weight of ALX4: 44.1kDa

Function: Transcription factor involved in skull and limb development. Plays an essential role in craniofacial development, skin and hair follicle development.

Expected subcellular localization: Nucleus

Recommended dilution:

• ELISA: Antibody specificity was verified by direct ELISA against the 3 immunogen peptides. A minimum titer of 1/14000 is determined. Appropriate specificity controls were run.

WB: 1:5000IF: 1/1000.

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

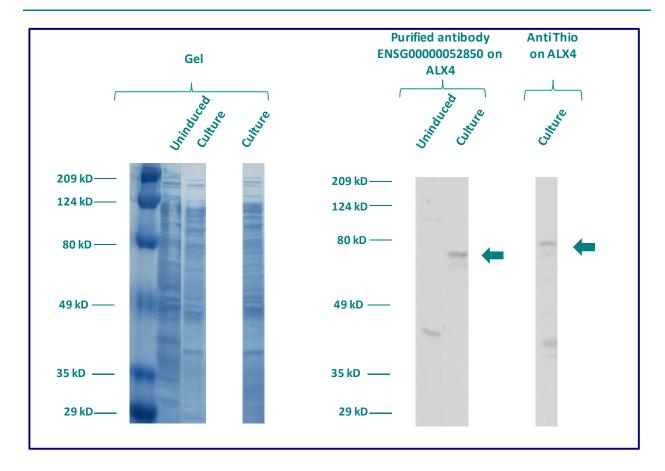
Storage instruction: Store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

The purified antibody ENSG00000052850 has been tested at 1/10000 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 ALX4: 58.1kDa (44.1kDa + 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 ENSG00000052850 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

IMMUNOFLUORESCENCE ANALYSIS

Immunofluorescence analysis of Homeobox protein aristaless-like (ALX4) expression in 3 cells lines (293T/17, SAOS-2, SH-SY5Y). The purified Antibody ENSG00000052850 has been tested at 1/5000.

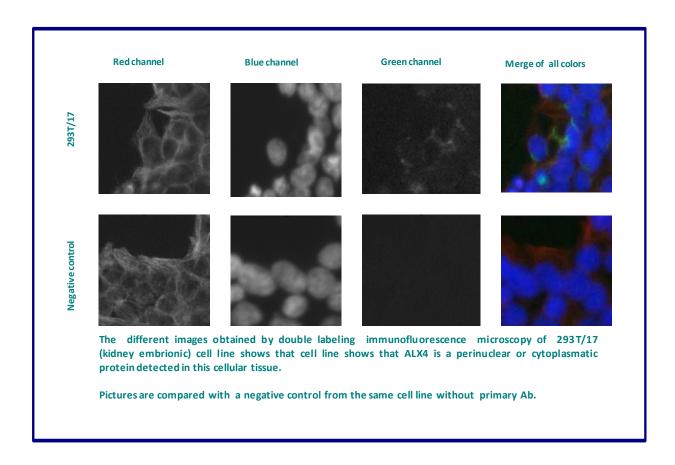
Red staining: cytoskeleton (microtubules/α-tubuline)

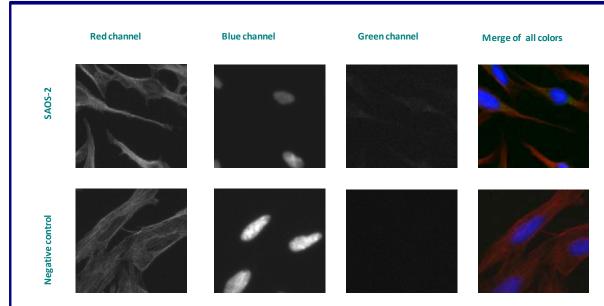
Blue staining: nucleus (Hoechst)

Green staining: anti-ALX4 antibody (purified)

Expected subcellular location: Nucleus

Expected tissue specificity: Expression is likely to be restricted to bone. Found in parietal bone.





The merge of staining obtained by double labeling immunofluorescence microscopy of SAOS-2 (osteosarcoma) cell line shows that cell line shows that ALX4 is a perinuclear or cytoplasmatic protein detected in this cellular tissue.

Pictures are compared with a negative control from the same cell line without primary Ab.

Remaining cell lines tested gave a positive results with the same distribution