


Product datasheet

Anti-SHOX antibody ab84804

1 Image

Overview

<b>Product name</b>	Anti-SHOX antibody
<b>Description</b>	Rabbit polyclonal to SHOX
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Horse, Cow, Cat, Dog, Pig, Zebrafish 
<b>Immunogen</b>	Synthetic peptide corresponding to a region within N terminal amino acids 2-51 (EELTAFVSKS FDQKSKDGNG GGGGGGGKKD SITYREVLES GLARSRELGT) of human SHOX (NP_000442). <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>
<b>Positive control</b>	Human fetal brain lysate.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: None Constituents: 2% Sucrose, PBS
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Purified by peptide affinity chromatography method.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab84804** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 32 kDa. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

## Target

### Function

Controls fundamental aspects of growth and development.

### Tissue specificity

SHOXA is expressed in skeletal muscle, placenta, pancreas, heart and bone marrow fibroblast and SHOXB is highly expressed in bone marrow fibroblast followed by kidney and skeletal muscle. SHOXB is not expressed in brain, kidney, liver and lung. Highly expressed in osteogenic cells.

### Involvement in disease

Defects in SHOX are the cause of Leri-Weill dyschondrosteosis (LWD) [MIM:127300]. LWD is a dominantly inherited skeletal dysplasia characterized by moderate short stature predominantly because of short mesomelic limb segments. It is often associated with the Madelung deformity of the wrist, comprising bowing of the radius and dorsal dislocation of the distal ulna.

Defects in SHOX are a cause of Langer mesomelic dysplasia (LMD) [MIM:249700]. LMD is an autosomal recessive rare skeletal dysplasia characterized by severe short stature owing to shortening and maldevelopment of the mesomelic and rhizomelic segments of the limbs. Associated malformations are rarely reported and intellect is normal in all affected subjects reported to date.

Defects in SHOX are a cause of idiopathic short stature (ISS) [MIM:300582]. Idiopathic short stature is usually defined as a height below the third percentile for chronological age or minus 2 standard deviations of national height standards in the absence of specific causative disorders.

### Sequence similarities

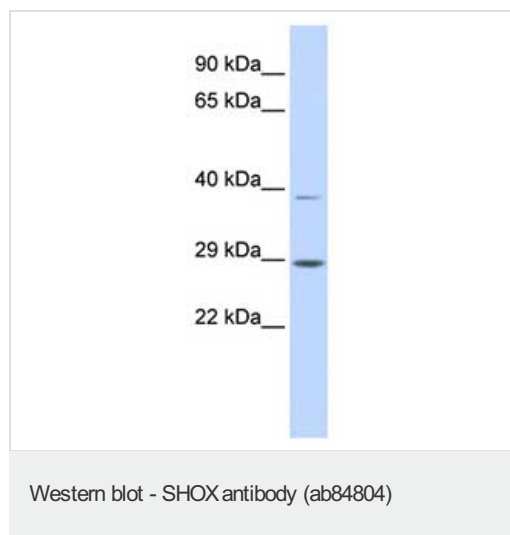
Belongs to the paired homeobox family. Bicoid subfamily.

Contains 1 homeobox DNA-binding domain.

### Cellular localization

Nucleus.

## Images



Anti-SHOX antibody (ab84804) at 1 µg/ml (in 5% skim milk / PBS buffer) + human fetal brain lysate at 10 µg

### Secondary

HRP conjugated anti-Rabbit IgG at 1/50000 dilution

**Predicted band size** : 32 kDa

**Observed band size** : 29 kDa

**Additional bands at** : 38 kDa. We are unsure as to the identity of these extra bands.

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