abcam

Product datasheet

Anti-SHOX antibody ab84804

1 Image

Overview

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

Properties

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

Applications

Our Abpromise guarantee covers the use of **ab84804** in the following tested applications.

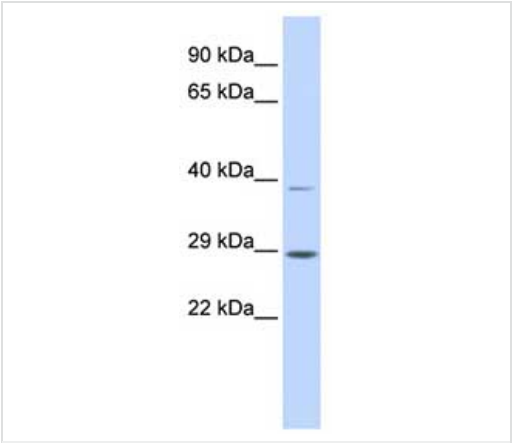
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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.

Anti-SHOX antibody images



Western blot - SHOX antibody (ab84804)

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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