

SHOX Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP21698a

Product Information

Application	WB, E
Primary Accession	O15266
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Chicken
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB47882
Calculated MW	32236

Additional Information

Gene ID	6473
Other Names	Short stature homeobox protein, Pseudoautosomal homeobox-containing osteogenic protein, Short stature homeobox-containing protein, SHOX, PHOG
Target/Specificity	This SHOX antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 4-38 amino acids from the N-terminal region of human SHOX.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SHOX Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SHOX
Synonyms	PHOG {ECO:0000303 PubMed:9259282}
Function	Transcription factor that controls fundamental aspects of growth. Directly activates NPPB transcription in osteogenic cells (PubMed: 11751690 ,

PubMed:[17881654](#)). Preferentially binds DNA elements with the sequence 5'-TAATNNNATTA-3', possibly as a homodimer (PubMed:[11751690](#)).

Cellular Location

Nucleus

Tissue Location

Expressed at high levels in bone marrow fibroblasts and trabecular bone cells (PubMed:9259282). Also detected in placenta (PubMed:9259282). Expressed in bone growth plate, with high levels in the zone of hypertrophic chondrocytes and lower expression in proliferating and resting chondrocytes (at protein level) (PubMed:17881654). In knee cartilage, tends to be expressed at higher levels in men compared to women (PubMed:38580675) [Isoform SHOXB]: Expressed at high levels in bone marrow fibroblasts. Also expressed in fetal kidney and skeletal muscle

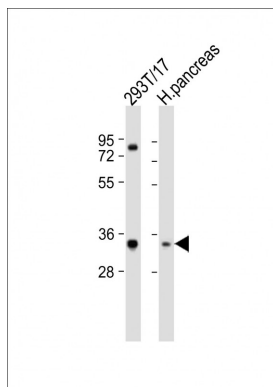
Background

Controls fundamental aspects of growth and development.

References

Rao E.,et al.Nat. Genet. 16:54-63(1997).
Ellison J.W.,et al.Hum. Mol. Genet. 6:1341-1347(1997).
Ross M.T.,et al.Nature 434:325-337(2005).
Grigelioniene G.,et al.Hum. Genet. 107:145-149(2000).
Cormier-Daire V.,et al.Am. J. Med. Genet. 106:272-274(2001).

Images



All lanes : Anti-SHOX Antibody (N-term) at 1:2000 dilution
Lane 1: 293T/17 whole cell lysate Lane 2: human pancreas lysate
Lysates/proteins at 20 µg per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 32 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.