

Anti-SHOX Antibody

Catalog # AP59935

Product Information

Application	WB
Primary Accession	O15266
Reactivity	Human, Mouse, Rat, Chicken, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32236

Additional Information

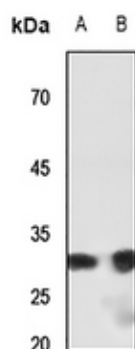
Gene ID	6473
Other Names	PHOG; Short stature homeobox protein; Pseudoautosomal homeobox-containing osteogenic protein; Short stature homeobox-containing protein
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SHOX. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C. Stable for 12 months from date of receipt

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

Images



Western blot analysis of SHOX expression in mouse muscle (A), rat muscle (B) whole cell lysates. (Predicted band size: 32 kD; Observed band size: 32 kD)

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