10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SHOX2 Rabbit pAb

SHOX2 Rabbit pAb
Catalog # AP56706

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O60902
Reactivity	Mouse
Predicted	Rat, Pig, Cat, Dog, Human, Rabbit, Chicken, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34953
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SHOX2
Epitope Specificity	101-200/331
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene is a member of the homeobox family of genes that encode proteins containing a 60-amino acid residue motif that represents a DNA binding domain. Homeobox genes have been characterized extensively as transcriptional regulators involved in pattern formation in both invertebrate and vertebrate species. Several human genetic disorders are caused by aberrations in human homeobox genes. This locus represents a pseudoautosomal homeobox gene that is thought to be responsible for idiopathic short stature, and it is implicated in the short stature phenotype of Turner syndrome patients. This gene is considered to be a candidate gene for Cornelia de Lange syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2009]

Additional Information

Gene ID	6474
Other Names	Short stature homeobox protein 2, Homeobox protein Og12X, Paired-related homeobox protein SHOT, SHOX2, OG12X {ECO:0000303|PubMed:9466998}, SHOT
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

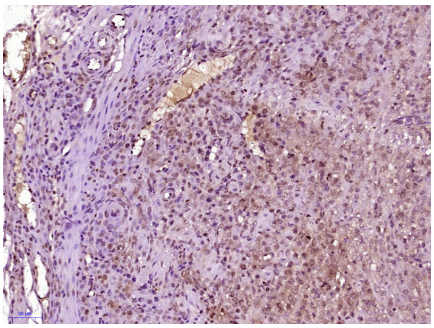
Protein Information

Name	SHOX2
Synonyms	OG12X {ECO:0000303|PubMed:9466998}, SHOT
Function	May be a growth regulator and have a role in specifying neural systems involved in processing somatosensory information, as well as in face and body structure formation.
Cellular Location	Nucleus.
Tissue Location	Widely expressed, including in heart, skeletal muscle, liver, lung, bone marrow fibroblast, pancreas and placenta

Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Images



Paraformaldehyde-fixed, paraffin embedded (Mouse embryo); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SHOX2) Polyclonal Antibody, Unconjugated (AP56706) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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