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Rabbit Anti-SHOX2 antibody

SL17471R

Product Name:	SHOX2
Chinese Name:	身材矮小同源盒基因SHOX2抗体
Alias:	Homeobox protein Og12X; OG 12; OG 12X; OG12; OG12X; OGI 2X; OGI2X; Paired related homeobox protein SHOT; Paired-related homeobox protein SHOT; Short stature homeobox 2; Short stature homeobox homolog; Short stature homeobox protein 2; SHOT; SHOX 2; SHOX homologous gene on chromosome 3; SHOX2; SHOX2_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Guinea Pig,Cat,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	35kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SHOX2:101-200/331
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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]

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.

Subcellular Location:
Nucleus.

Tissue Specificity:
Expressed in heart, skeletal muscle, liver, lung, bone marrow fibroblast, pancreas and placenta.

Similarity:
Belongs to the paired homeobox family. Bicoid subfamily.
Contains 1 homeobox DNA-binding domain.

SWISS:
O60902

Gene ID:
6474

Database links:

Entrez Gene: 6474 Human

Entrez Gene: 20429 Mouse

Entrez Gene: 25546 Rat

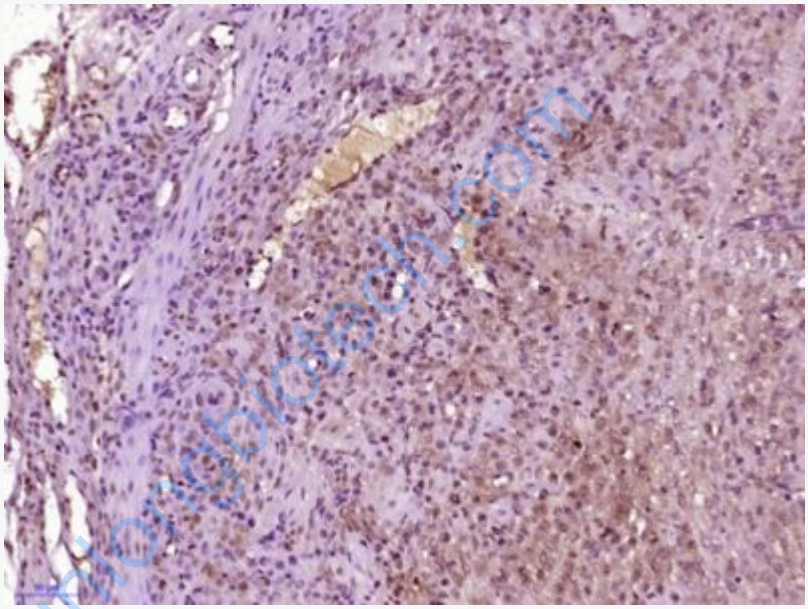
Omim: 602504 Human

SwissProt: O60902 Human

SwissProt: P70390 Mouse

SwissProt: O35750 Rat

Unigene: 55967 Human

	Unigene: 39093 Mouse Unigene: 11258 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 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 (SL17471R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.