



Rabbit Anti-HOXD10 antibody

SL22037R

Product Name:	HOXD10
Chinese Name:	同源盒蛋白HOXD10抗体
Alias:	Homeo box D10; Homeobox protein Hox-4D; Homeobox protein Hox-4E; Homeobox protein Hox-D10; Hox 4.5; Hox 4D; Hox 4E; HOX4D; HOXD10; HXD10; HXD10_HUMAN; Hox 5.3.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	IHC-P=1:400-800 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	38kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HOXD10 :111-210/340
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 Abd-B homeobox family and encodes a protein with a homeobox DNA-binding domain. It is included in a cluster of homeobox D genes located on chromosome 2. The encoded nuclear protein functions as a sequence-specific transcription factor that is expressed in the developing limb buds and is involved in differentiation and limb development. Mutations in this gene have been associated with Wilm's tumor and congenital vertical talus (also known as "rocker-bottom foot")

deformity or congenital convex pes valgus) and/or a foot deformity resembling that seen in Charcot-Marie-Tooth disease. [provided by RefSeq, Jul 2008]

Function:

Sequence-specific transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis.

Tissue Specificity:

Strongly expressed in the adult male and female urogenital tracts.

DISEASE:

Defects in HOXD10 are a cause of congenital vertical talus (CVT) [MIM:192950]; also known as rocker-bottom foot deformity or congenital convex pes valgus. CVT is a dislocation of the talonavicular joint, with rigid dorsal dislocation of the navicular over the neck of the talus. This condition is usually associated with multiple other congenital deformities and only rarely is an isolated deformity.

Similarity:

Belongs to the Abd-B homeobox family.
Contains 1 homeobox DNA-binding domain.

SWISS:

P28358

Gene ID:

3236

Database links:

[Entrez Gene: 3236](#)Human

[Entrez Gene: 15430](#)Mouse

[Omim: 142984](#)Human

[SwissProt: P28358](#)Human

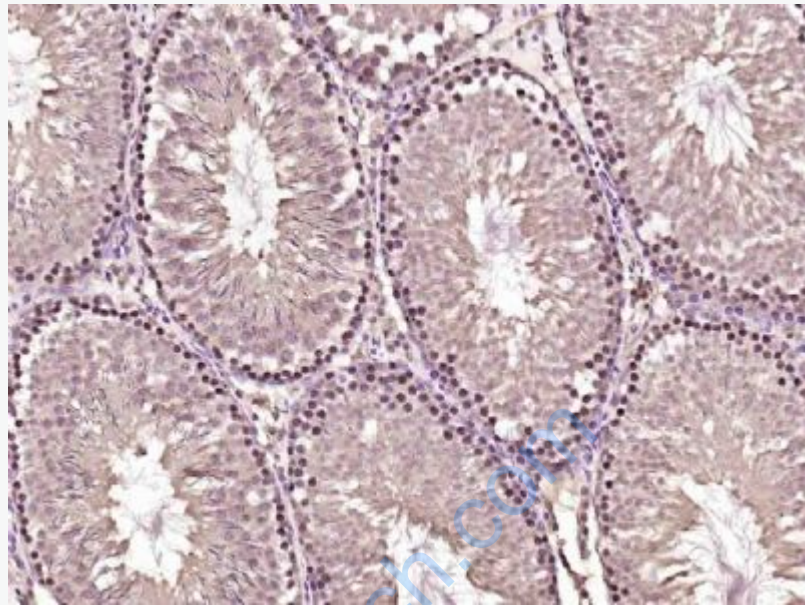
[SwissProt: P28359](#)Mouse

[Unigene: 123070](#)Human

[Unigene: 24420](#)Mouse

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 (rat testis); 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 (HOXD10) Polyclonal Antibody, Unconjugated (SL22037R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.