

# HOXD3 Polyclonal antibody

Catalog Number: 10496-1-AP

## Basic Information

<b>Catalog Number:</b> 10496-1-AP	<b>GenBank Accession Number:</b> BC005124	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 600 µg/ml	<b>GeneID (NCBI):</b> 3232	<b>Recommended Dilutions:</b> IHC 1:50-1:500 IF/ICC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P31249	
<b>Isotype:</b> IgG	<b>Full Name:</b> homeobox D3	
<b>Immunogen Catalog Number:</b> AG0768	<b>Calculated MW:</b> 46 kDa	

## Applications

<b>Tested Applications:</b> IHC, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse	<b>IHC :</b> mouse testis tissue, <b>IF/ICC :</b> U2OS cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

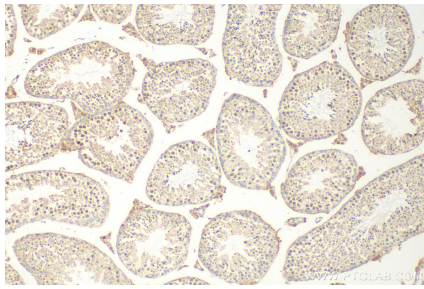
## Background Information

Homeobox D3 (HOXD3), a member of the Homeobox (Hox) family of master transcription factors, is a homeobox transcription factor that promotes angiogenesis and collagen synthesis. HOXD3 is expressed during normal embryogenesis, skin development, and fetal wound healing (PMID: 14633614). The overexpression of HOXD3 plays a critical role in breast cancer stemness and drug resistance via integrin  $\beta$ 3-mediated Wnt/ $\beta$ -catenin signaling (PMID: 29698974).

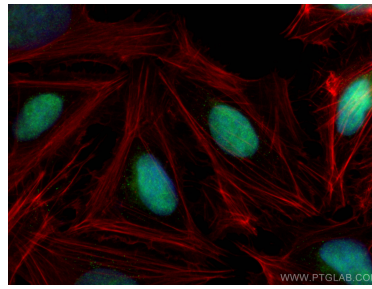
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 10496-1-AP (HOXD3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using HOXD3 antibody (10496-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).