For Research Use Only

SOX7 Polyclonal antibody

Catalog Number:23925-1-AP 3 Publications

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Basic Information

Catalog Number:
23925-1-AP

Size:
150ul , Concentration: 750 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG10323

GenBank Accession Number:
BC071947

GeneID (NCBI):
83595

UNIPROT ID:
Q9BT81

Full Name:
SRY (sex determining region Y)-box 7

Calculated MW:
388 aa, 42 kDa

Observed MW:
42-45 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IHC 1:50-1:500
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IP

Species Specificity:
human, mouse

Cited Species:
human

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

Positive Controls:

WB : COLO 320 cells, mouse heart tissue, PC-3 cells

IHC : human prostate cancer tissue, human colon tissue

IF/ICC : U2OS cells,

Background Information

SOX7, also named as Transcription factor SOX-7, is a 388 amino acid protein, which is widely expressed in adult and fetal tissues and tends to be down-regulated in prostate adenocarcinomas and colorectal tumors due to promoter hypermethylation. SOX7 binds to and activates the CDH5 promoter, hence plays a role in the transcriptional regulation of genes expressed in the hemogenic endothelium and blocks further differentiation into blood precursors. SOX7 may be required for the survival of both hematopoietic and endothelial precursors during specification.

Notable Publications

Author	Pubmed ID	Journal	Application
Baolei Li	35260939	Mol Genet Genomics	WB,IP
Qiao-Yang Sun	31332289	Oncogene	WB
Nanchao Hong	33846290	Cell Death Dis	WB

Storage

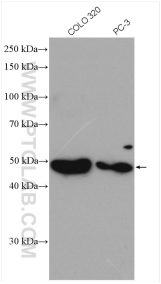
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

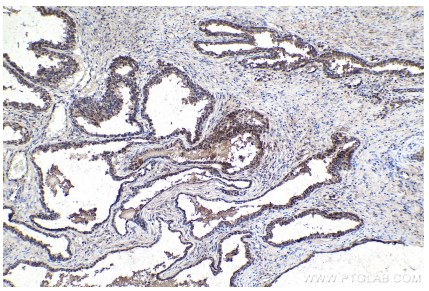
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

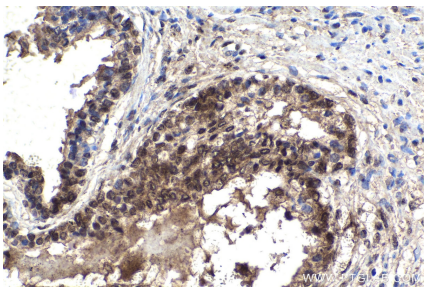
Selected Validation Data



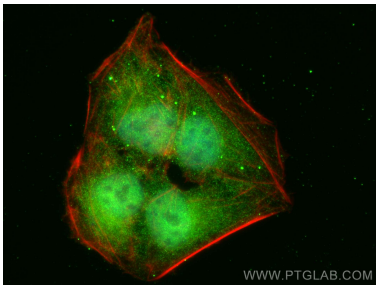
Various lysates were subjected to SDS PAGE followed by western blot with 23925-1-AP (SOX7 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 23925-1-AP (SOX7 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 23925-1-AP (SOX7 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using SOX7 antibody (23925-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).