

For Research Use Only

TOX4 Polyclonal antibody

Catalog Number: 27988-1-AP

1 Publications



Basic Information

Catalog Number: 27988-1-AP	GenBank Accession Number: BC013689	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 450 ug/ml by Nanodrop;	GeneID (NCBI): 9878	Recommended Dilutions: WB 1:1000-1:4000
Source: Rabbit	UNIPROT ID: O94842	IHC 1:500-1:2000
Isotype: IgG	Full Name: TOX high mobility group box family member 4	IF/ICC 1:300-1:1200
Immunogen Catalog Number: AG27638	Calculated MW: 621 aa, 66 kDa	
	Observed MW: 100-110 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : HepG2 cells, K-562 cells, MCF-7 cells, PC-3 cells, Raji cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : rat bladder tissue, mouse bladder tissue, mouse liver tissue
	IF/ICC : HepG2 cells,

Background Information

TOX (Thymocyte selection-associated HMG box) genes represent a novel gene family and encode a novel nuclear DNA binding protein belonging to a large superfamily of HMG (high mobility group)-box family. TOX proteins consist a small subfamily of proteins, including TOX1, TOX2, TOX3, and TOX4. The TOX subfamily members are highly conserved among vertebrates. TOX4 was recently found to be one of the subunits of the PP1C, which consists of three regulatory proteins, PNUTS, TOX4, and WDR82, and one of the PP1 phosphatases, PP1 α , β , and γ 25. Tox4 can modulate cell fate by reprogramming from a somatic state into a pluripotent and neuronal fate (PMID:31519808). Despite a predicted molecular mass of TOX4 protein of 66 kDa, the detection band of western blot analysis in many literatures is 100 kDa (PMID:37286708;35365735). This antibody was also detected at around 100 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Zhenning Wang	39603240	Mol Cell	

Storage

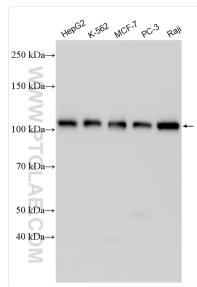
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

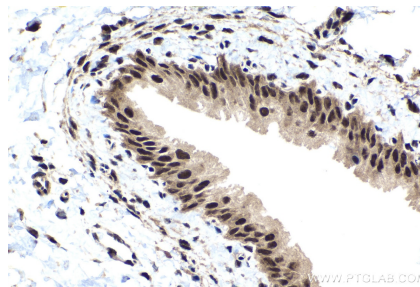
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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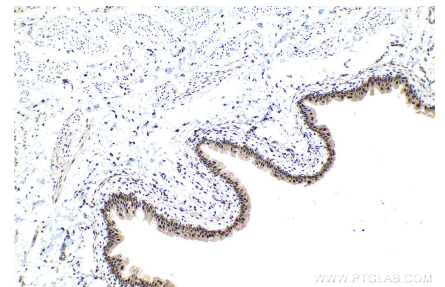
Selected Validation Data



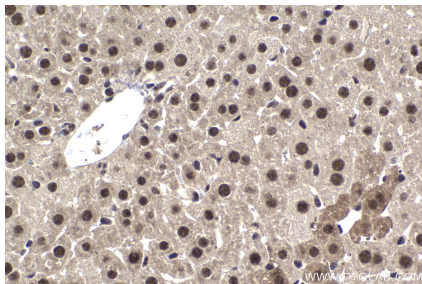
Various lysates were subjected to SDS PAGE followed by western blot with 27988-1-AP (TOX4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



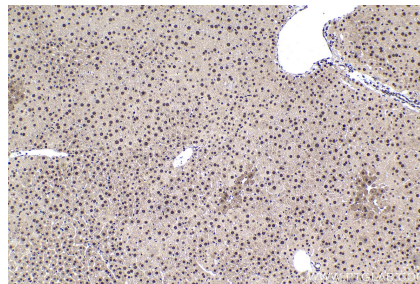
Immunohistochemical analysis of paraffin-embedded rat bladder tissue slide using 27988-1-AP (TOX4 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



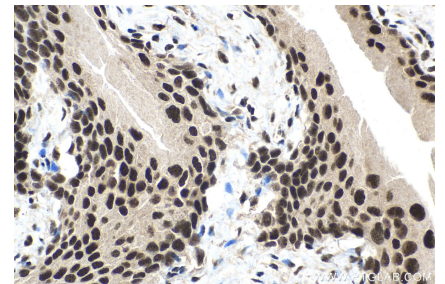
Immunohistochemical analysis of paraffin-embedded rat bladder tissue slide using 27988-1-AP (TOX4 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



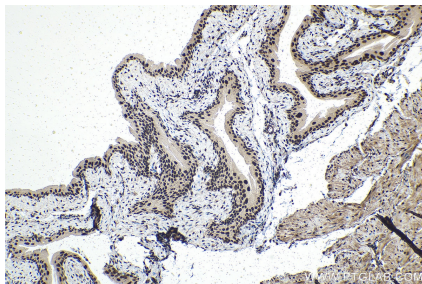
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 27988-1-AP (TOX4 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



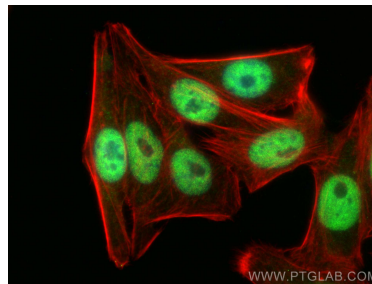
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 27988-1-AP (TOX4 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse bladder tissue slide using 27988-1-AP (TOX4 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse bladder tissue slide using 27988-1-AP (TOX4 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using TOX4 antibody (27988-1-AP) at dilution of 1:600 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).