

For Research Use Only

TOX4 Polyclonal antibody, PBS Only

Catalog Number: 27988-1-PBS



Basic Information

Catalog Number:

27988-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG27638

GenBank Accession Number:

BC013689

GeneID (NCBI):

9878

UNIPROT ID:

O94842

Full Name:

TOX high mobility group box family member 4

Calculated MW:

621 aa, 66 kDa

Observed MW:

100-110 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

WB, IHC, IF/ICC, Indirect ELISA

Species Specificity:

human, mouse, rat

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.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

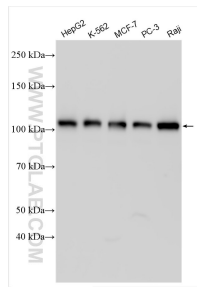
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

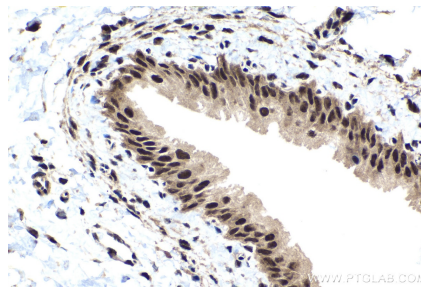
E: proteintech@ptglab.com
W: ptglab.com

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

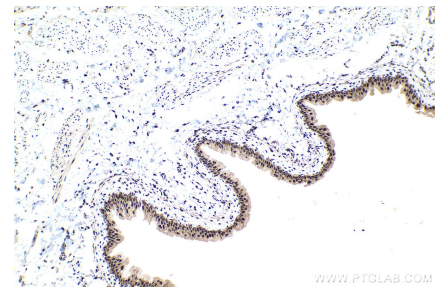
Selected Validation Data



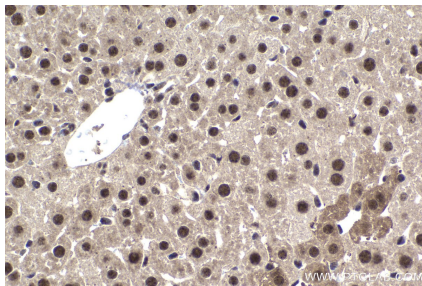
Various lysates were subjected to SDS PAGE followed by western blot with 27988-1-AP (TOX4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 27988-1-PBS in a different storage buffer formulation.



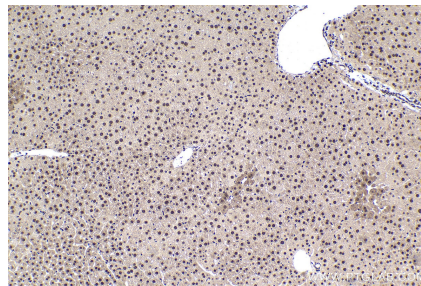
Immunohistochemical analysis of paraffin-embedded rat bladder tissue slide using 27988-1-AP (TOX4 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 27988-1-PBS in a different storage buffer formulation.



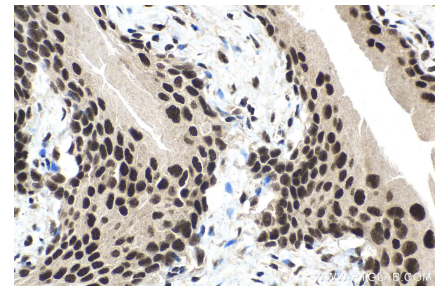
Immunohistochemical analysis of paraffin-embedded rat bladder tissue slide using 27988-1-AP (TOX4 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 27988-1-PBS in a different storage buffer formulation.



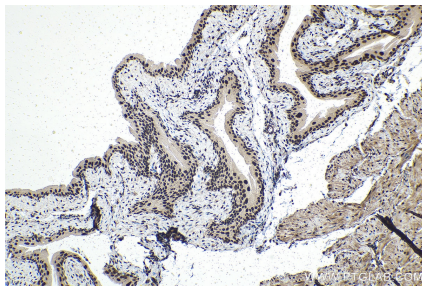
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 27988-1-AP (TOX4 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 27988-1-PBS in a different storage buffer formulation.



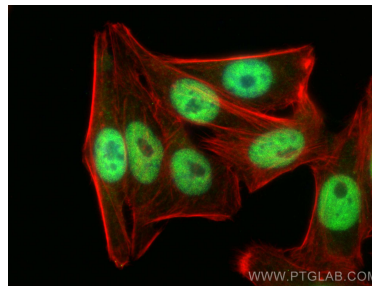
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 27988-1-AP (TOX4 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 27988-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 27988-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 27988-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 27988-1-PBS in a different storage buffer formulation.