

For Research Use Only

# TOX2 Polyclonal antibody

Catalog Number: 21162-1-AP

Featured Product

2 Publications



## Basic Information

**Catalog Number:**

21162-1-AP

**Size:**

400 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG14772

**GenBank Accession Number:**

BC007636

**GeneID (NCBI):**

84969

**UNIPROT ID:**

Q96NM4

**Full Name:**

TOX high mobility group box family member 2

**Calculated MW:**

488 aa, 52 kDa

**Observed MW:**

70 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:6000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

**Tested Applications:**

IHC, IP, WB, ELISA

**Cited Applications:**

WB, IF, ChIP

**Species Specificity:**

human, mouse

**Cited Species:**

human, mouse

**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: A549 cells, MCF-7 cells, mouse liver tissue

IP: mouse liver tissue,

IHC: human breast cancer tissue,

## Background Information

TOX2 is a transcription factor belonging to the TOX (thymocyte selection-associated HMG box) family that shares a highly conserved high mobility group DNA-binding domain with the other TOX members. A previous study showed that TOX2 is preferentially expressed in human NK cells among various leukocyte populations and is required for in vitro and in vivo human NK cell differentiation from UCB-derived CD341 hematopoietic stem cells (HSCs) (PMID: 25352127).

## Notable Publications

Author	Pubmed ID	Journal	Application
Shu Horiuchi	34623911	Sci Adv	WB
Jianbiao Zhou	37032358	Mol Cancer	WB,IF,ChIP

## 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

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

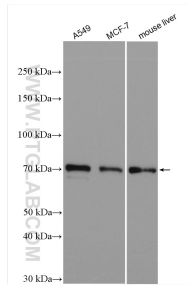
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E: Proteintech-CN@ptglab.com

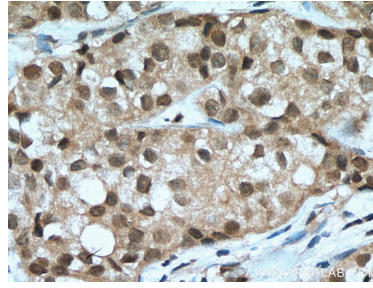
W: ptgcn.com

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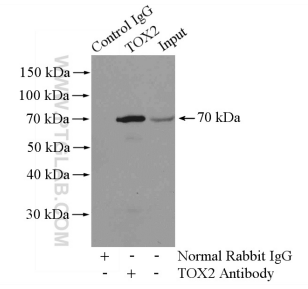
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 21162-1-AP (TOX2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 21162-1-AP (TOX2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-TOX2 (IP:21162-1-AP, 4ug; Detection:21162-1-AP 1:300) with mouse liver tissue lysate 4000ug.