

For Research Use Only

# TOX2 Recombinant antibody, PBS Only (Capture)

Catalog Number: 84304-2-PBS



## Basic Information

Catalog Number: 84304-2-PBS	GenBank Accession Number: BC007636	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 84969	CloneNo.: 241645A11
Source: Rabbit	UNIPROT ID: Q96NM4	
Isotype: IgG	Full Name: TOX high mobility group box family member 2	
Immunogen Catalog Number: AG14772	Calculated MW: 488 aa, 52 kDa	

## Applications

**Tested Applications:**  
IF/ICC, FC (Intra), Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human

## 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).

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

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

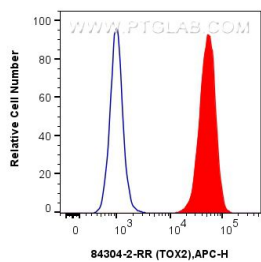
T: 4006900926

E: Proteintech-CN@ptglab.com

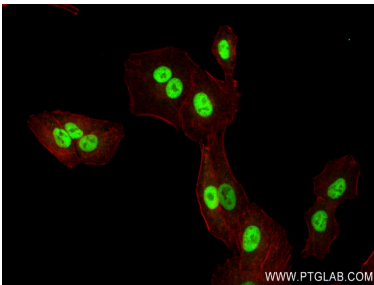
W: ptgcn.com

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

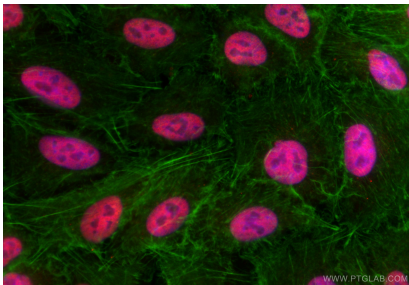
Selected Validation Data



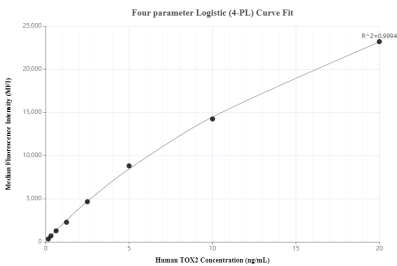
1x10<sup>6</sup> A549 cells were intracellularly stained with 0.25 ug Tox2 Recombinant Antibody (84304-2-RR, Clone:241645A11) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 84304-2-PBS in a different storage buffer formulation.



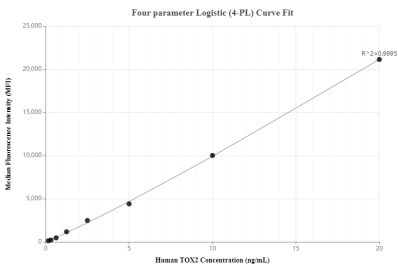
Immunofluorescent analysis of (4% PFA) fixed A549 cells using TOX2 antibody (84304-2-RR, Clone: 241645A11 ) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 84304-2-PBS in a different storage buffer formulation.



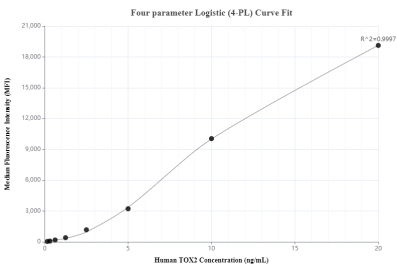
Immunofluorescent analysis of (4% PFA) fixed A549 cells using TOX2 antibody (84304-2-RR, Clone: 241645A11 ) at dilution of 1:500 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4), CL488-phalloidin (green). This data was developed using the same antibody clone with 84304-2-PBS in a different storage buffer formulation.



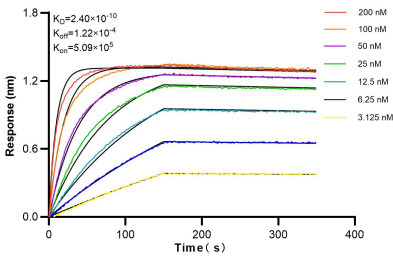
Cytometric bead array standard curve of MP01188-1, TOX2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84304-2-PBS. Detection antibody: 84304-1-PBS. Standard: Ag14772. Range: 0.156-20 ng/mL



Cytometric bead array standard curve of MP01188-2, TOX2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84304-2-PBS. Detection antibody: 84304-4-PBS. Standard: Ag14772. Range: 0.156-20 ng/mL



Cytometric bead array standard curve of MP01188-3, TOX2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84304-2-PBS. Detection antibody: 84304-3-PBS. Standard: Ag14772. Range: 0.156-20 ng/mL



Biolayer interferometry (BLI) kinetic assays of 84304-2-RR against Human TOX2 were performed. The affinity constant is 0.240 nM.