

For Research Use Only

# TOX2 Recombinant antibody

Catalog Number: 84304-2-RR



## Basic Information

<b>Catalog Number:</b> 84304-2-RR	<b>GenBank Accession Number:</b> BC007636	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 84969	<b>CloneNo.:</b> 241645A11
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q96NM4	<b>Recommended Dilutions:</b> IF/ICC 1:200-1:800
<b>Isotype:</b> IgG	<b>Full Name:</b> TOX high mobility group box family member 2	
<b>Immunogen Catalog Number:</b> AG14772	<b>Calculated MW:</b> 488 aa, 52 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b> IF/ICC : A549 cells,
<b>Species Specificity:</b> 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 -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

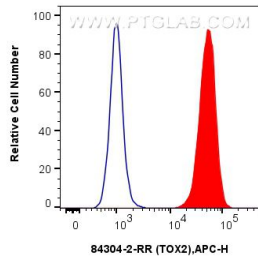
For technical support and original validation data for this product please contact:

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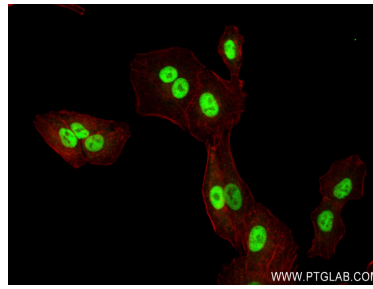
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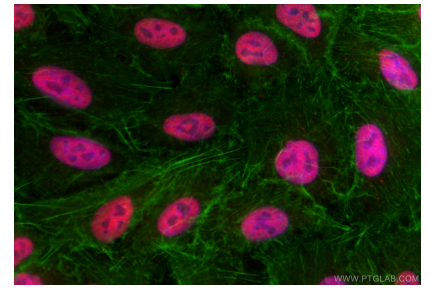
## Selected Validation Data



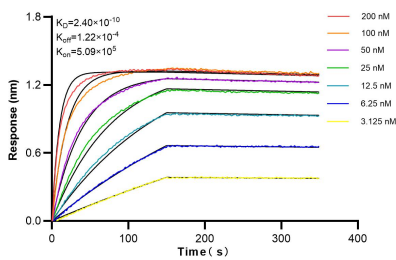
1x10<sup>6</sup> A549 cells were intracellularly stained with 0.25 ug Tox2 Recombinant Antibody (84304-2-RR, Clone:241645A11) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



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).



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).



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