

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

Product Information

84304-2-PBS targets TOX2 as part of a matched antibody pair:

MP01188-1: 84304-2-PBS capture and 84304-1-PBS detection (validated in Cytometric bead array)

MP01188-2: 84304-2-PBS capture and 84304-4-PBS detection (validated in Cytometric bead array)

MP01188-3: 84304-2-PBS capture and 84304-3-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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.
Storage Buffer:
PBS Only

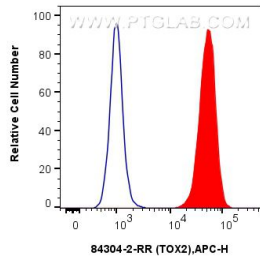
For technical support and original validation data for this product please contact:

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

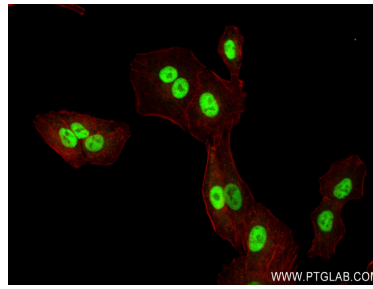
E: proteintech@ptglab.com
W: ptglab.com

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

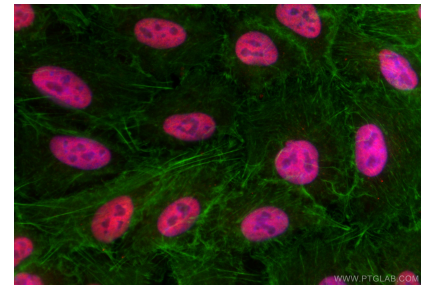
Selected Validation Data



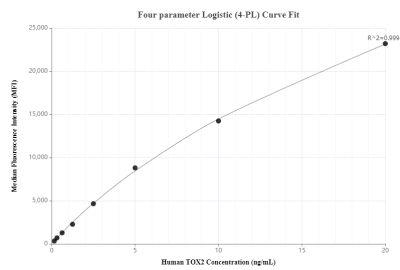
1x10⁶ A549 cells were intracellularly stained with 0.25 ug Tox2 Recombinant Antibody (84304-2-RR, Clone:241645A11) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 84304-2-PBS in a different storage buffer formulation.



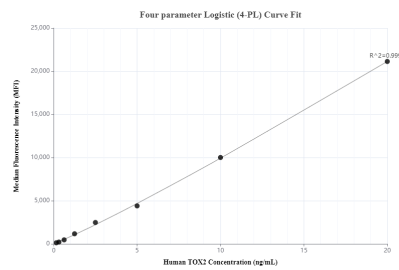
Immunofluorescent analysis of (4% PFA) fixed A549 cells using TOX2 antibody (84304-2-RR, Clone: 241645A11) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 84304-2-PBS in a different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



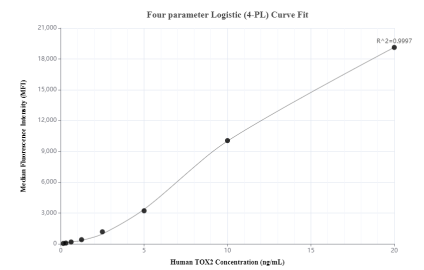
Immunofluorescent analysis of (4% PFA) fixed A549 cells using TOX2 antibody (84304-2-RR, Clone: 241645A11) at dilution of 1:500 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4), CL488-phalloidin (green). This data was developed using the same antibody clone with 84304-2-PBS in a different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



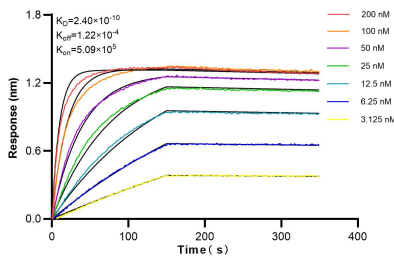
Cytometric bead array standard curve of MP01188-1, TOX2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84304-2-PBS. Detection antibody: 84304-1-PBS. Standard: Ag14772. Range: 0.156-20 ng/mL



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.