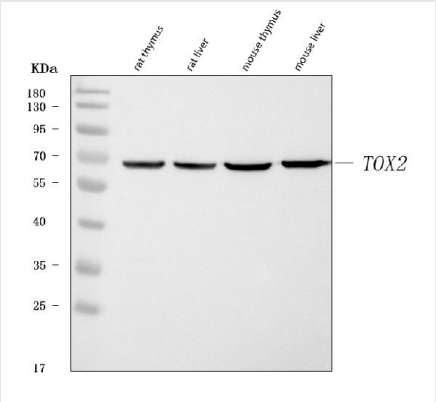
TOX2 Antibody – Rabbit Polyclonal

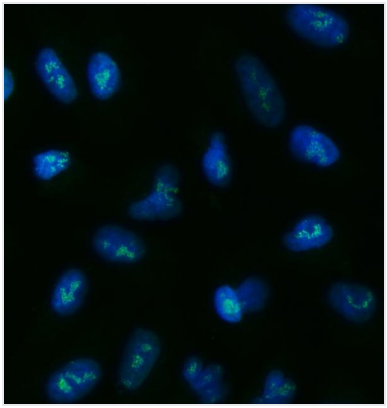
PRODUCT OVERVIEW

Product Name	TOX2, Polyclonal Antibody
Full Product Name	Anti-TOX2 Antibody Picoband
Product Gene Name	anti-TOX2 antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (lot specific)
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.
Molecular Weight	51,604 Da
OMIM	611163
3D Structure	ModBase 3D Structure for Q96NM4
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human TOX2 recombinant protein (Position: Q41-A425).
Product Categories/Family for anti-TOX2 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-TOX2 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-TOX2 antibody	WB: 0.25-0.5 ug/ml, Mouse, Rat ICC/IF: 5 ug/ml, Human FC/FACS: 1-3 ug/1x10^6 cells, Human Direct ELISA: 0.1-0.5 ug/ml, Human Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG (#MBS176460) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (#MBS176453) for ICC.
Related Product Information for anti-TOX2 antibody	TOX high mobility group box family member 2, also known as TOX2, is a human gene. Enables transcription coactivator activity. Involved in positive regulation of transcription by RNA polymerase II. Located in nucleoplasm.
Other Notes	Small volumes of anti-TOX2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TOX2 purchase	MBS1755837 is an antibody targeting TOX2. Also known as Anti-TOX2 Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



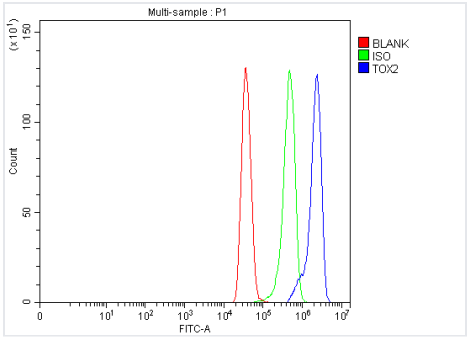
Western Blot (WB) of anti-TOX2 antibody

Figure 1. Western blot analysis of TOX2 using anti-TOX2 antibody (MBS1755837).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: rat thymus tissue lysates,Lane 2: rat liver tissue lysates,Lane 3: mouse thymus tissue lysates,Lane 4: mouse liver tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TOX2 antigen affinity purified polyclonal antibody (#MBS1755837) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for TOX2 at approximately 70 kDa. The expected band size for TOX2 is at 52 kDa.



Immunofluorescence (IF) of anti-TOX2 antibody

Figure 2. IF analysis of TOX2 using anti-TOX2 antibody (MBS1755837).TOX2 was detected in an immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-TOX2 Antibody (MBS1755837) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG (MBS177405) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry (FC/FACS) of anti-TOX2 antibody

Figure 3. Flow Cytometry analysis of MCF-7 cells using anti-TOX2 antibody (MBS1755837).Overlay histogram showing MCF-7 cells stained with MBS1755837 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TOX2 Antibody (MBS1755837, 1 ug/1x10^6 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 5-10 ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TOX2. It may not necessarily be applicable to this product.

NCBI GI #	149408141
NCBI GeneID	84969
NCBI Accession #	NP_001092266.1
UniProt Primary Accession #	Q96NM4
UniProt Secondary Accession #	Q5TE33; Q5TE34; Q5TE35; Q96IC9; Q9BQN5; A8K1J1; E1P5X0; G3XAC7
UniProt Related Accession #	Q96NM4
GenBank Nucleotide #	NM_001098796.1

NCBI Official Full Name	TOX high mobility group box family member 2 isoform c
NCBI Official Synonym Full Names	TOX high mobility group box family member 2
NCBI Official Symbol	TOX2
NCBI Official Synonym Symbols	GCX1; GCX-1; C20orf100; dJ495O3.1; dJ1108D11.2
UniProt Protein Name	TOX high mobility group box family member 2
UniProt Synonym Protein Names	Granulosa cell HMG box protein 1; GCX-1
Protein Family	TOX high mobility group box family
UniProt Gene Name	TOX2
UniProt Synonym Gene Names	C20orf100; GCX1; GCX-1
UniProt Entry Name	TOX2_HUMAN
NCBI Protein Information	TOX high mobility group box family member 2; granulosa cell HMG box 1
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