Rabbit anti-Human TBX4 Polyclonal Antibody | anti-TBX4 antibody

Anti-TBX4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125773	**Rabbit**	**Human**	**Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot**

PRODUCT SYNONYMS

TBX4; Polyclonal Antibody; Anti-TBX4 Antibody; T-box transcription factor TBX4; T-box protein 4; T-box transcription factor 4; anti-TBX4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for TBX4 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-TBX4 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of human TBX4 (HQALQHYQHENGAHSQLAEPQDLPLSTFPTQ).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

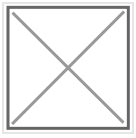
IMAGES



FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of CACO-2 cells using anti-TBX4 antibody (AAA125773).Overlay histogram showing CACO-2 cells stained with AAA125773 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TBX4 Antibody (AAA125773, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)
Figure 2. IF analysis of TBX4 using anti- TBX4 antibody (AAA125773).TBX4 was detected in immunocytochemical section of MCF-7 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti- TBX4 Antibody (AAA125773) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG 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.



WB (Western Blot)
Figure 1. Western blot analysis of TBX4 using anti-TBX4 antibody (AAA125773).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 30ug of sample under reducing conditions.Lane 1: human placenta tissue lysatesLane 2: human Caco-2 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-TBX4 antigen affinity purified polyclonal antibody (Catalog # AAA125773) at 0. 5 μg/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 TBX4 at approximately 60KD. The expected band size for TBX4 is at 60KD.

ADDITIONAL INFORMATION

Related Product Information for anti-TBX4 antibody	This gene is a member of a phylogenetically conserved family of genes that share a common DNA-binding domain, the T-box. T-box genes encode transcription factors involved in the regulation of developmental processes. This gene is the human homolog of mouse Tbx4, which is closely linked to Tbx2 on mouse chromosome 11. Similarly this gene, like TBX2, maps to human chromosome 17. Expression studies in mouse and chicken show that Tbx4 is expressed in developing hindlimb, but not in forelimb buds, suggesting a role for this gene in regulating limb development and specification of limb identity.
References	1. Agulnik, S. I., Garvey, N., Hancock, S., Ruvinsky, I., Chapman, D. L., Agulnik, I., Bollag, R., Papaioannou, V., Silver, L. M. Evolution of mouse T-box genes by tandem duplication and cluster dispersion. Genetics 144: 249-254, 1996. 2. Bollag, R. J., Siegfried, Z., Cebra-Thomas, J. A., Garvey, N., Davison, E. M., Silver, L. M. An ancient family of embryonically expressed mouse genes sharing a conserved protein motif with the T locus. Nature Genet. 7: 383-389, 1994. 3. Bongers, E. M. F., Van Bokhoven, H., Van Thienen, M. -N., Kooyman, M. A. P., Van Beersum, S. E. C., Boetes, C., Knoers, N. V. A. M., Hamel, B. C. J. The small patella syndrome: description of five cases from three families and examination of possible allelism with familial patella aplasia-hypoplasia and nail-patella syndrome. (Letter) J. Med. Genet. 38: 209-213, 2001.

NCBI AND UNIPROT INFORMATION

NCBI GI #	18129690
NCBI GeneID	9496
NCBI Accession #	NP_060958.2
NCBI GenBank Nucleotide #	NM_018488.2
UniProt Accession #	P57082; A5PKU7; B2RMT1; B7ZLV3
Molecular Weight	60,275 Da
NCBI Official Full Name	T-box transcription factor TBX4
NCBI Official Synonym Full Names	T-box 4
NCBI Official Symbol	TBX4
NCBI Official Synonym Symbols	SPS
NCBI Protein Information	T-box transcription factor TBX4; T-box protein 4
UniProt Protein Name	T-box transcription factor TBX4
UniProt Gene Name	**TBX4**

UniProt Synonym Gene Names	T-box protein 4
UniProt Entry Name	TBX4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/tbx4-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/125773