

Rabbit SOX6 Polyclonal Antibody | anti-SOX6 antibody

Anti-SOX6 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125676	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

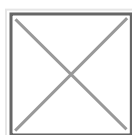
PRODUCT SYNONYMS

SOX6; Polyclonal Antibody; Anti-SOX6 Antibody; Transcription factor SOX-6; SRY-box transcription factor 6; anti-SOX6 antibody

PRODUCT SPECIFICATIONS

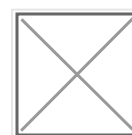
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for SOX6 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg NaN ₃ .
Applicable Applications for anti-SOX6 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of human SOX6 (DQDTVMKAIQEARKMREIQREQQQQ).
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 4 Flow Cytometry analysis of A549 cells using anti-SOX6 antibody (AAA125676). Overlay histogram showing A549 cells stained with AAA125676 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SOX6 Antibody (AAA125676, 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.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of SOX6 using anti-SOX6 antibody (AAA125676). SOX6 was detected in paraffin-embedded section of rat testis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-SOX6 Antibody (AAA125676) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of SOX6 using anti-SOX6 antibody (AAA125676).SOX6 was detected in paraffin-embedded section of mouse testis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-SOX6 Antibody (AAA125676) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of SOX6 using anti-SOX6 antibody (AAA125676).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 50ug of sample under reducing conditions.Lane 1: human placenta tissue lysatesLane 2: human CACO-2 whole cell lysatesLane 3: human U20S 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-SOX6 antigen affinity purified polyclonal antibody (Catalog # AAA125676) 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 SOX6 approximately 92KD. The expected band size for SOX6 is at 92KD.

ADDITIONAL INFORMATION

Related Product Information for anti-SOX6 antibody	Transcription factor SOX-6 is a protein that in humans is encoded by the SOX6 gene. This gene encodes a member of the D subfamily of sex determining region y-related transcription factors that are characterized by a conserved DNA-binding domain termed the high mobility group box and by their ability to bind the minor groove of DNA. The encoded protein is a transcriptional activator that is required for normal development of the central nervous system, chondrogenesis and maintenance of cardiac and skeletal muscle cells. The encoded protein interacts with other family members to cooperatively activate gene expression. Alternative splicing results in multiple transcript variants.
References	<ol style="list-style-type: none">1. Batista-Brito, R., Rossignol, E., Hjerling-Leffler, J., Denaxa, M., Wegner, M., Lefebvre, V., Pachnis, V., Fishell, G. The cell-intrinsic requirement of Sox6 for cortical interneuron development. <i>Neuron</i> 63: 466-481, 2009.2. Cohen-Barak, O., Hagiwara, N., Arit, M. F., Horton, J. P., Brilliant, M. H. Cloning, characterization and chromosome mapping of the human SOX6 gene. <i>Gene</i> 265: 157-164, 2001.3. Connor, F., Wright, E., Denny, P., Koopman, P., Ashworth, A. The Sry-related HMG box-containing gene Sox6 is expressed in the adult testis and developing nervous system of the mouse. <i>Nucleic Acids Res.</i> 23: 3365-3372, 1995.

NCBI AND UNIPROT INFORMATION

NCBI GI #	224967050
NCBI GeneID	55553
NCBI Accession #	NP_001139283.1
NCBI GenBank Nucleotide #	NM_001145811.1
UniProt Accession #	P35712 ; Q86VX7 ; Q9BXQ3 ; Q9BXQ4 ; Q9BXQ5 ; Q9H0I8
Molecular Weight	91,921 Da
NCBI Official Full Name	transcription factor SOX-6 isoform 3
NCBI Official Synonym Full Names	SRY (sex determining region Y)-box 6
NCBI Official Symbol	SOX6
NCBI Official Synonym Symbols	SOXD; HSSOX6
NCBI Protein Information	transcription factor SOX-6; SRY-box containing gene 6
UniProt Protein Name	Transcription factor SOX-6
UniProt Gene Name	SOX6
UniProt Entry Name	SOX6_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/sox6-antibody-direct-elisa-flow-cytometry-immunohistochemistry-western-blot-elisa/125676>