

anti-Human, Rat SOX5 Polyclonal Antibody | anti-SOX5 antibody

Anti-SOX5 Antibody

CATALOG # AAA46323	REACTIVITY Human, Rat	APPLICATIONS Western Blot
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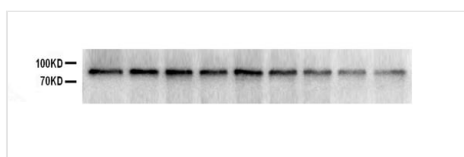
PRODUCT SYNONYMS

SOX5; Polyclonal Antibody; Anti-SOX5 Antibody; Transcription factor SOX-5; L SOX5; MGC35153; Sex determining region Y box 5; SOX 5; SOX 5 protein; Sox5; SOX5 protein; SOX5_HUMAN; SRY (sex determining region Y) box 5; SRY box 5; Transcription factor SOX 5; Transcription factor SOX5; SRY (sex determining region Y)-box 5; anti-SOX5 antibody

PRODUCT SPECIFICATIONS

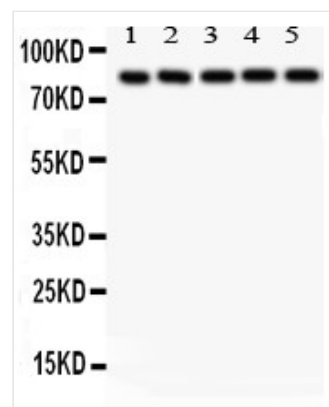
Reactivity	Human, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	642
Applicable Applications for anti-SOX5 antibody	WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human SOX5 (495-528aa EKEKTTLESLTQQLAVKQNEEGKFSHAMMDFNLS), different from the related mouse sequence by two amino acids.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



WB (Western Blot)

Figure 2. Western blot analysis of SOX5 using anti-SOX5 antibody (AAA46323). 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 40ug of sample under reducing conditions. All lanes: pig adipose cells. 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-SOX5 antigen affinity purified polyclonal antibody at 0.5ug/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 1:10000 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 SOX5 at approximately 84KD. The expected band size for SOX5 is at 84KD.



WB (Western Blot)

Anti- SOX5 Picoband antibody, AAA46323, Western blotting. All lanes: Anti SOX5 (AAA46323) at 0.5ug/mL. Lane 1: Rat Liver Tissue Lysate at 50ug. Lane 2: Rat Testis Tissue Lysate at 50ug. Lane 3: Rat Brain Tissue Lysate at 50ug. Lane 4: HELA Whole Cell Lysate at 40ug. Lane 5: A549 Whole Cell Lysate at 40ug. Predicted bind size: 84KD. Observed bind size: 84KD.

ADDITIONAL INFORMATION

Related Product Information for anti-SOX5 antibody	Description: Rabbit IgG polyclonal antibody for Transcription factor SOX-5(SOX5) detection. Tested with WB in Human;Rat. Background: Transcription factor SOX-5 is a protein that in humans is encoded by the SOX5 gene. It is located on 12p12.1. This gene encodes a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. The encoded protein may act as a transcriptional regulator after forming a protein complex with other proteins. In addition, the encoded protein may play a role in chondrogenesis. A pseudogene of this gene is located on chromosome 8. Multiple transcript variants encoding distinct isoforms have been identified for this gene.
References	1. "Entrez Gene: SOX5 SRY (sex determining region Y)-box 5". 2. Ikeda T; Zhang J; Chano T et al. (2003). "Identification and characterization of the human long form of Sox5 (L-SOX5) gene". Gene 298 (1): 59-68. 3. Wunderle VM, Critcher R, Ashworth A, Goodfellow PN (Jan 1997). "Cloning and characterization of SOX5, a new member of the human SOX gene family". Genomics 36 (2): 354-8.

NCBI AND UNIPROT INFORMATION

NCBI GI #	387157920
NCBI GeneID	6660
NCBI Accession #	NP_001248343.1
NCBI GenBank Nucleotide #	NM_001261414.1
UniProt Accession #	P35711; Q86UK8; Q8J017; Q8J018; Q8J019; Q8J020; Q8N1D9; Q8N7E0; Q8TEA4; B7Z8V0; F5H5B0
Molecular Weight	82,770 Da
NCBI Official Full Name	transcription factor SOX-5 isoform d
NCBI Official Synonym Full Names	SRY-box 5
NCBI Official Symbol	SOX5
NCBI Official Synonym Symbols	L-SOX5; LAMSHF; L-SOX5B; L-SOX5F
NCBI Protein Information	transcription factor SOX-5
UniProt Protein Name	Transcription factor SOX-5
UniProt Gene Name	SOX5
UniProt Entry Name	SOX5_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.