

Rabbit anti-Human, Mouse SIX1 Polyclonal Antibody | anti-SIX1 antibody

SIX1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324795	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

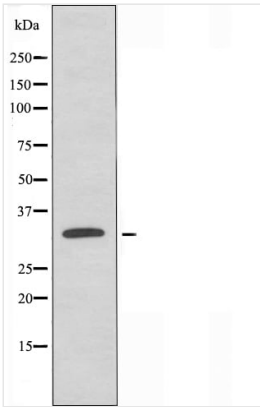
PRODUCT SYNONYMS

SIX1; Polyclonal Antibody; SIX1 Antibody; BOS3; DFNA23; Homeobox protein SIX1; OTTHUMP00000179042; Sine oculis homeobox homolog 1; SIX homeobox 1; SIX1_HUMAN; TIP39; anti-SIX1 antibody

PRODUCT SPECIFICATIONS

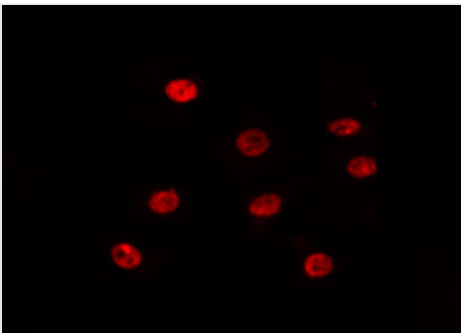
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	SIX1 antibody detects endogenous levels of total SIX1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	284
Applicable Applications for anti-SIX1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus.
Tissue Specificity	Specifically expressed in skeletal muscle.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from NIH/3T3 cells, using SIX1 antibody.



IF (Immunofluorescence)

AAA324795 staining 293T by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-SIX1 antibody	Function: Transcription factor that is involved in the regulation of cell proliferation, apoptosis and embryonic development. Plays an important role in the development of several organs, including kidney, muscle and inner ear. Depending on context, functions as transcriptional repressor or activator. Lacks an activation domain, and requires interaction with EYA family members for transcription activation. Mediates nuclear translocation of EYA1 and EYA2. Binds the 5'-TCA[AG][AG]TTNC-3' motif present in the MEF3 element in the MYOG promoter. Regulates the expression of numerous genes, including MYC, CCND1 and EZR. Acts as activator of the IGFBP5 promoter, probably coactivated by EYA2. Repression of precursor cell proliferation in myoblasts is switched to activation through recruitment of EYA3 to the SIX1-DACH1 complex. During myogenesis, seems to act together with EYA2 and DACH2 (By similarity). Regulates the expression of CCNA1. Subunit Structure: Interacts with DACH1 and EYA3 (By similarity). Interacts with EYA1 and EYA2. Interacts with CDC20. Interacts with TBX18 (PubMed:26235987). Post-translational Modifications: Phosphorylated during interphase; becomes hyperphosphorylated during mitosis. Hyperphosphorylation impairs binding to promoter elements. Ubiquitinated by the anaphase promoting complex (APC), leading to its proteasomal degradation. Similarity: Belongs to the SIX/Sine oculis homeobox family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	5174681
NCBI GeneID	6495
NCBI Accession #	NP_005973.1
NCBI GenBank Nucleotide #	NM_005982.3
UniProt Accession #	Q15475; Q53Y16; Q96H64
Molecular Weight	Observed: 33 kD Predicted: 33 kDa
NCBI Official Full Name	homeobox protein SIX1
NCBI Official Synonym Full Names	SIX homeobox 1
NCBI Official Symbol	SIX1
NCBI Official Synonym Symbols	BOS3; TIP39; DFNA23
NCBI Protein Information	homeobox protein SIX1
UniProt Protein Name	Homeobox protein SIX1

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/six1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/324795>