

Anti-SIX1 Antibody
Rabbit polyclonal antibody to SIX1
Catalog # AP60965**Specification**

Anti-SIX1 Antibody - Product Information

Application	WB
Primary Accession	Q15475
Other Accession	Q62231
Reactivity	Human, Mouse, Rat, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32210

Anti-SIX1 Antibody - Additional Information**Gene ID** 6495**Other Names**

Homeobox protein SIX1; Sine oculis homeobox homolog 1

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SIX1. The exact sequence is proprietary.

Dilution

WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-SIX1 Antibody - Protein Information**Name** SIX1**Function**

Transcription factor that is involved in the regulation of cell proliferation, apoptosis and embryonic development (By similarity). Plays an important role in the development of several organs, including kidney, muscle and inner ear (By similarity). Depending on context, functions as a transcriptional repressor or activator (By similarity). Lacks an activation domain, and requires interaction with EYA family members for transcription activation (PubMed:15141091). Mediates nuclear translocation of EYA1 and EYA2 (PubMed:19497856). Binds the

5'-TCA[AG][AG]TTNC-3' motif present in the MEF3 element in the MYOG promoter and CIDEA enhancer (PubMed:15141091, PubMed:19497856, PubMed:23435380, PubMed:27923061). Regulates the expression of numerous genes, including MYC, CCND1 and EZR (By similarity). Acts as an activator of the IGFBP5 promoter, probably coactivated by EYA2 (By similarity). Repression of precursor cell proliferation in myoblasts is switched to activation through recruitment of EYA3 to the SIX1-DACH1 complex (By similarity). During myogenesis, seems to act together with EYA2 and DACH2 (By similarity). Regulates the expression of CCNA1 (PubMed:15123840). Promotes brown adipocyte differentiation (By similarity).

Cellular Location

Nucleus. Cytoplasm

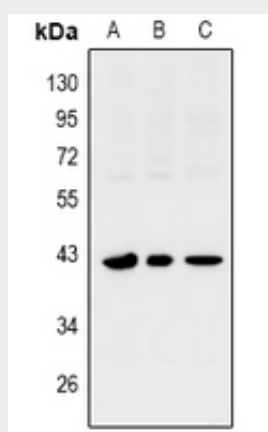
Tissue Location

Specifically expressed in skeletal muscle.

Anti-SIX1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-SIX1 Antibody - Images

Western blot analysis of SIX1 expression in PC12 (A), MEF (B), COS7 (C) whole cell lysates.

Anti-SIX1 Antibody - Background

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