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Six1 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI11450

Product Information

Application	WB
Primary Accession	Q62231
Other Accession	NM_009189, NP_033215
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Horse, Bovine, Sheep
Predicted	Human, Mouse, Rat, Zebrafish, Pig, Chicken, Dog, Bovine, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32210

Additional Information

Gene ID	20471
Alias Symbol	BB138287
Other Names	Homeobox protein SIX1, Sine oculis homeobox homolog 1, Six1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Six1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Six1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Six1
Function	Transcription factor that is involved in the regulation of cell proliferation, apoptosis and embryonic development (PubMed:12215533, PubMed:12668636, PubMed:12834866, PubMed:14628042, PubMed:14695375). Plays an important role in the development of several organs, including kidney, muscle and inner ear (PubMed:12668636, PubMed:12783782, PubMed:12834866, PubMed:14628042, PubMed:14695375). Depending on context, functions as a transcriptional repressor or activator (PubMed:14628042). Lacks an activation domain, and requires interaction with EYA family members for transcription activation (By similarity). Mediates nuclear translocation of EYA1 and EYA2 (By similarity). Binds the 5'-TCA[AG][AG]TTNC-3' motif present in the MEF3 element in the

MYOG promoter and CIDEA enhancer (By similarity). Regulates the expression of numerous genes, including MYC, CCNA1, CCND1 and EZR (PubMed:16488997). Acts as an activator of the IGFBP5 promoter, probably coactivated by EYA2 (PubMed:11978764). Repression of precursor cell proliferation in myoblasts is switched to activation through recruitment of EYA3 to the SIX1-DACH1 complex (PubMed:14628042). During myogenesis, seems to act together with EYA2 and DACH2. Regulates the expression of CCNA1 (By similarity). Promotes brown adipocyte differentiation (PubMed:27923061).

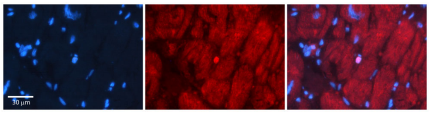
Cellular Location

Nucleus {ECO:0000250|UniProtKB:Q15475}. Cytoplasm {ECO:0000250|UniProtKB:Q15475}

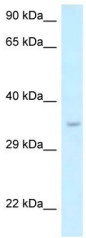
Tissue Location

Expressed in phalangeal tendons and in skeletal muscle and in head and body mesenchyme

Images



Rabbit Anti-Six1 Antibody
Catalog Number: AI11450
Formalin Fixed Paraffin Embedded Tissue: Human Adult heart Observed Staining: Cytoplasmic,Nuclear (very rare in Nuclear)
Primary Antibody
Concentration: 1:600
Secondary Antibody: Donkey anti-Rabbit-Cy2/3
Secondary Antibody
Concentration: 1:200
Magnification: 20X
Exposure Time: 0.5 â€“ 2.0 sec
Protocol located in Reviews and Data.



WB Suggested Anti-Six1 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Kidney