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# Six1 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI11450

## Product Information

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|---|---|
| **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

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|---|---|
| **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

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|---|---|
| **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).

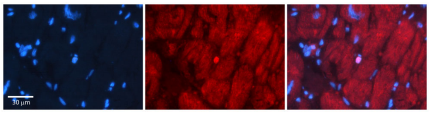
**Cellular Location**

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

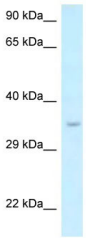
**Tissue Location**

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.