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Datasheet for ABIN7119116
anti-SIX Homeobox 1 antibody

Overview

Quantity:	100 µg
Target:	SIX Homeobox 1 (SIX1)
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SIX Homeobox 1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	SIX homeobox 1
Isotype:	IgG
Purification:	Immunogen affinity purified
Purity:	≥95 % as determined by SDS-PAGE

Target Details

Target:	SIX Homeobox 1 (SIX1)
Alternative Name:	SIX1 (SIX1 Products)
Background:	Synonyms: BOS3, DFNA23, Homeobox protein SIX1, Sine oculis homeobox homolog 1, SIX homeobox 1, SIX1, TIP39 Background: 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,

Target Details

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.

Molecular Weight: 32-35 kDa

Gene ID: 6495

UniProt: [Q15475](#)

Pathways: [Sensory Perception of Sound](#), [Regulation of Muscle Cell Differentiation](#), [Tube Formation](#), [Skeletal Muscle Fiber Development](#)

Application Details

Application Notes: WB: 1:500-1:2000, IP: 1:200-1:1000, IF: 1:20-1:200

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Expiry Date: 12 months