

Datasheet for ABIN7155848

anti-SIX Homeobox 1 antibody (AA 144-262)**2** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	SIX Homeobox 1 (SIX1)
Binding Specificity:	AA 144-262
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SIX Homeobox 1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human Homeobox protein SIX1 protein (144-262AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	>95%, Protein G purified

Target Details

Target:	SIX Homeobox 1 (SIX1)
Alternative Name:	SIX1 (SIX1 Products)
Background:	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,

Target Details

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.

Aliases: BOS3 antibody, DFNA23 antibody, Homeobox protein SIX1 antibody, OTTHUMP00000179042 antibody, Sine oculis homeobox homolog 1 antibody, SIX homeobox 1 antibody, SIX1 antibody, SIX1_HUMAN antibody, TIP39 antibody

UniProt: [Q15475](#)

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

Application Details

Application Notes: Recommended dilution: WB:1:500-1:5000, IHC:1:200-1:500,

Restrictions: For Research Use only

Handling

Format: Liquid

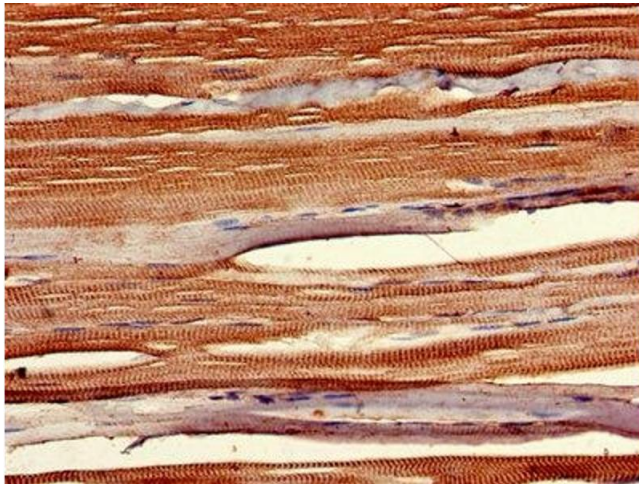
Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

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

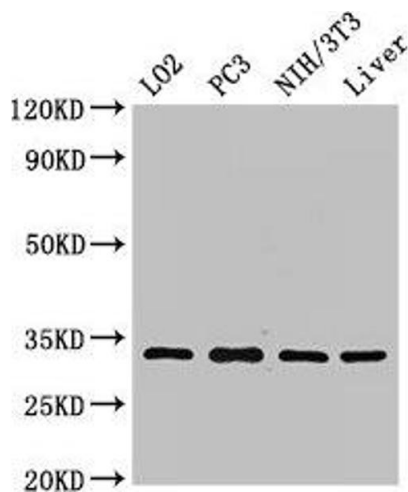
Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



Immunohistochemistry

Image 1. IHC image of ABIN7155848 diluted at 1:400 and staining in paraffin-embedded human skeletal muscle tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Western Blotting

Image 2. Western Blot Positive WB detected in: LO2 whole cell lysate, PC-3 whole cell lysate, NIH/3T3 whole cell lysate, Rat liver tissue All lanes: SIX1 antibody at 2.7 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 33 kDa Observed band size: 33 kDa