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Datasheet for ABIN2780732

anti-SIX Homeobox 1 antibody (N-Term)

2 Images

Overview

Quantity:	100 µL
Target:	SIX Homeobox 1 (SIX1)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Dog, Guinea Pig, Horse, Rabbit, Cow, Sheep, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SIX Homeobox 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Sequence:	ERLGRFLWSL PACDHLHKNE SVLKAKAVVA FHRGNFRELY KILESHQFSP
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Sheep: 100%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against Six1. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	SIX Homeobox 1 (SIX1)
Alternative Name:	Six1 (SIX1 Products)
Background:	Six1 is a transcription factor that is involved in regulation of organogenesis. It seems to be

Target Details

required for development of kidney, muscle and inner ear and to be involved in later steps of myogenic differentiation. It may be involved in limb tendon and ligament development. It binds a 5'-TCA[AG][AG]TTNC-3' motif present in the MEF3 element in the myogenin promoter. It is thought to be regulated by association with Dach and Eya proteins. Six1 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 phosphatase to the SIX1-DACH1 complex. During myogenesis, Six1 seems to act together with EYA2 and DACH2 .

Alias Symbols: BB138287

Protein Interaction Partner: Eya4, Eya1, Smarca4, Neurog1, Neurod1, Smarcc2, Sox2, Smarcc1, Eya3, Dach1,

Protein Size: 284

Molecular Weight: 32 kDa

Gene ID: 20471

NCBI Accession: [NM_009189](#), [NP_033215](#)

UniProt: [Q62231](#)

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

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 284 AA

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Preservative: Sodium azide

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

Handling

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -20 °C

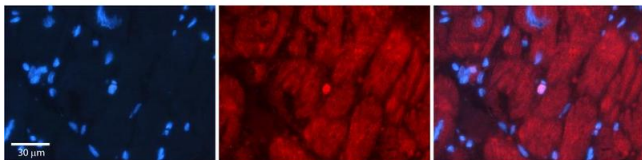
Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-Six1 Antibody Titration: 1.0 ug/ml Positive Control: Mouse Kidney



Immunohistochemistry

Image 2. Rabbit Anti-Six1 Antibody 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 – 2.0 sec Protocol located in Reviews and Data.