Datasheet for ABIN3044544

anti-SIX Homeobox 1 antibody (C-Term)

1 Image

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Overview

Quantity:	100 µg
Target:	SIX Homeobox 1 (SIX1)
Binding Specificity:	AA 245-282, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SIX Homeobox 1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-SIX1 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human SIX1, different from the related mouse sequence by one amino acid.
Sequence:	NYSLPGLTAS QPSHGLQTHQ HQLQDSLLGP LTSSLVDL
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-SIX1 Antibody Picoband® (ABIN3044544). Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	SIX Homeobox 1 (SIX1)
Alternative Name:	SIX1 (SIX1 Products)
Background:	Synonyms: Homeobox protein SIX1,Sine oculis homeobox homolog 1,SIX1, Tissue Specificity: Specifically expressed in skeletal muscle. Background: Homeobox protein SIX1 (Sineoculis homeobox homolog 1) is a protein that in humans is encoded by the SIX1 gene. It is mapped to 14q23.1. The protein encoded by this gene is a homeobox protein that is similar to the Drosophila 'sine oculis' gene product. This gene is found in a cluster of related genes on chromosome 14 and is thought to be involved in limb development. Defects in this gene are a cause of autosomal dominant deafness type 23 (DFNA23) and branchiootic syndrome type 3 (BOS3).
Molecular Weight:	37 kDa
Gene ID:	6495
UniProt:	Q15475
Pathways:	Sensory Perception of Sound, Regulation of Muscle Cell Differentiation, Tube Formation, Skeletal Muscle Fiber Development

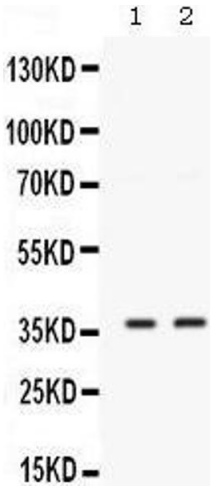
Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human 1. "Entrez Gene: SIX1 sine oculis homeobox homolog 1 (Drosophila)". 2. Boucher CA, Carey N, Edwards YH, Siciliano MJ, Johnson KJ (Apr 1996). "Cloning of the human SIX1 gene and its assignment to chromosome 14". Genomics 33 (1): 140-2. 3. Ruf RG, Xu PX, Silvius D, Otto EA, Beekmann F, Muerb UT, Kumar S, Neuhaus TJ, Kemper MJ, Raymond RM, Brophy PD, Berkman J, Gattas M, Hyland V, Ruf EM, Schwartz C, Chang EH, Smith RJ, Stratakis CA, Weil D, Petit C, Hildebrandt F (May 2004). "SIX1 mutations cause branchio-oto-renal syndrome by disruption of EYA1-SIX1-DNA complexes". Proceedings of the National Academy of Sciences of the United States of America 101 (21): 8090-5.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
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 Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of SIX1 expression in MCF-7 whole cell lysates (lane 1) and 22RV1 whole cell lysates (lane 2). SIX1 at 37KD was detected using rabbit anti- SIX1 Antigen Affinity purified polyclonal antibody at0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method