Datasheet for ABIN2777839

anti-SHOX2 antibody (N-Term)

2 Images

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Overview

Quantity:	100 µL
Target:	SHOX2
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse, Cow, Dog, Guinea Pig, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SHOX2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human SHOX2
Sequence:	EELTAFVSKS FDQKVKEKKE AITYREVLES GPLRGAKEPT GCTEAGRDDR
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Human: 100%, Mouse: 100%, Rat: 100%, Zebrafish: 93%
Characteristics:	This is a rabbit polyclonal antibody against SHOX2. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	SHOX2

Target Details

Alternative Name:	SHOX2 (SHOX2 Products)
Background:	SHOX2 is a member of the homeo box family of genes that encode proteins containing a 60-amino acid residue motif that represents a DNA binding domain. Homeo box genes have been characterized extensively as transcriptional regulators involved in pattern formation in both invertebrate and vertebrate species. Several human genetic disorders are caused by aberrations in human homeo box genes. SHOX is a pseudoautosomal homeo box gene that is thought to be responsible for idiopathic short stature and implicated to play a role in the short stature phenotype of Turner syndrome patients. This gene is a member of the homeo box family of genes that encode proteins containing a 60-amino acid residue motif that represents a DNA binding domain. Homeo box genes have been characterized extensively as transcriptional regulators involved in pattern formation in both invertebrate and vertebrate species. Several human genetic disorders are caused by aberrations in human homeo box genes. SHOX is a pseudoautosomal homeo box gene that is thought to be responsible for idiopathic short stature and implicated to play a role in the short stature phenotype of Turner syndrome patients. This gene is considered to be a candidate gene for Cornelia de Lange syndrome. Alternative splicing has been observed at this locus and two variants, each encoding a distinct isoform, have been identified. Alias Symbols: OG12, OG12X, OGI2X, SHOT Protein Interaction Partner: CDK4, ELAVL1, TRIM29, KDM5B, Protein Size: 331
Molecular Weight:	35 kDa
Gene ID:	6474
NCBI Accession:	NM_006884, NP_006875
UniProt:	O60902
Pathways:	Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development

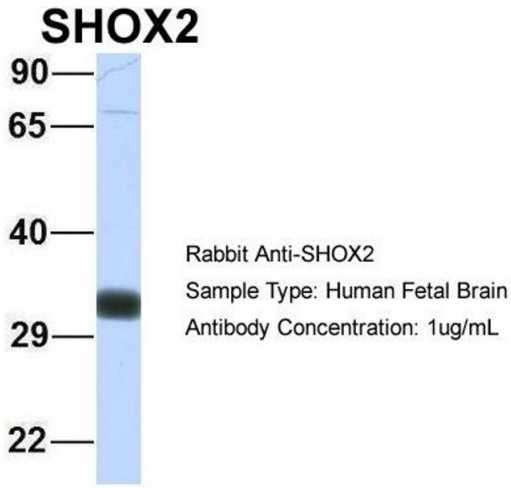
Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 331 AA
Restrictions:	For Research Use only

Handling

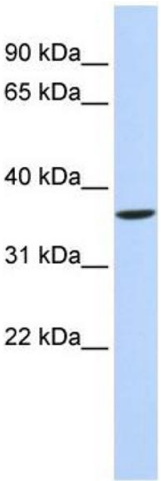
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling 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. Host: Rabbit Target Name: SHOX2 Sample Type: Human Fetal Brain Antibody Dilution: 1.0ug/ml



Western Blotting

Image 2. WB Suggested Anti-SHOX2 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: 721_B cell lysate SHOX2 is strongly supported by BioGPS gene expression data to be expressed in Human 721_B cells