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Datasheet for ABIN6265098 anti-SIX4 antibody (Internal Region)

2 Images



Overview

Quantity:	100 μL
Target:	SIX4
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SIX4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	A synthesized peptide derived from human SIX4, corresponding to a region within the internal amino acids.
lsotype:	lgG
Specificity:	SIX4 Antibody detects endogenous levels of total SIX4.
Predicted Reactivity:	Pig,Horse,Sheep,Dog,Chicken
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).

Target Details

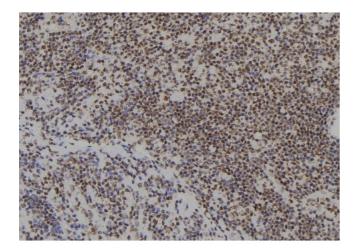
Target: SIX4

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Alternative Name:	SIX4 (SIX4 Products)
Background:	Description: Transcriptional regulator which can act as both a transcriptional repressor and
	activator by binding a DNA sequence on these target genes and is involved in processes like
	cell differentiation, cell migration and cell survival. Transactivates gene expression by binding a
	5'-[CAT]A[CT][CT][CTG]GA[GAT]-3' motif present in the Trex site and a 5'-TCA[AG][AG]TTNC-3'
	motif present in the MEF3 site of the muscle-specific genes enhancer. Acts cooperatively with
	EYA proteins to transactivate their target genes through interaction and nuclear translocation o
	EYA protein. Acts synergistically with SIX1 to regulate target genes involved in formation of
	various organs, including muscle, kidney, gonad, ganglia, olfactory epithelium and cranial
	skeleton. Plays a role in several important steps of muscle development. Controls the genesis
	of hypaxial myogenic progenitors in the dermomyotome by transactivating PAX3 and the
	delamination and migration of the hypaxial precursors from the ventral lip to the limb buds
	through the transactivation of PAX3, MET and LBX1. Controls myoblast determination by
	transactivating MYF5, MYOD1 and MYF6. Controls somitic differentiation in myocyte through
	MYOG transactivation. Plays a role in synaptogenesis and sarcomere organization by
	participating in myofiber specialization during embryogenesis by activating fast muscle
	program in the primary myotome resulting in an up-regulation of fast muscle genes, including
	ATP2A1, MYL1 and TNNT3. Simultaneously, is also able to activate inhibitors of slow muscle
	genes, such as SOX6, HRASLS, and HDAC4, thereby restricting the activation of the slow
	muscle genes. During muscle regeneration, negatively regulates differentiation of muscle
	satellite cells through down-regulation of MYOG expression. During kidney development
	regulates the early stages of metanephros development and ureteric bud formation through
	regulation of GDNF, SALL1, PAX8 and PAX2 expression. Plays a role in gonad development by
	regulating both testis determination and size determination. In gonadal sex determination,
	transactivates ZFPM2 by binding a MEF3 consensus sequence, resulting in SRY up-regulation.
	In gonadal size determination, transactivates NR5A1 by binding a MEF3 consensus sequence
	resulting in gonadal precursor cell formation regulation. During olfactory development mediate
	the specification and patterning of olfactory placode through fibroblast growth factor and
	BMP4 signaling pathways and also regulates epithelial cell proliferation during placode
	formation. Promotes survival of sensory neurons during early trigeminal gangliogenesis. In the
	developing dorsal root ganglia, up-regulates SLC12A2 transcription. Regulates early
	thymus/parathyroid organogenesis through regulation of GCM2 and FOXN1 expression. Forms
	gustatory papillae during development of the tongue. Also plays a role during embryonic crania
	skeleton morphogenesis.

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Target Details	
Molecular Weight:	83 kDa
Gene ID:	51804
UniProt:	Q9UIU6
Pathways:	Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development
Application Details	
Application Notes:	WB 1:1000-3000, IHC 1:200, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Format: Concentration:	Liquid 1 mg/mL
Concentration:	1 mg/mL Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 %
Concentration: Buffer:	1 mg/mL Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Concentration: Buffer: Preservative:	1 mg/mL Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol. Sodium azide This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
Concentration: Buffer: Preservative: Precaution of Use:	 1 mg/mL Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol. Sodium azide This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.



kDa 250-150-100-75-50-37-25-20-15-

Immunohistochemistry

Image 1. ABIN6279504 at 1/100 staining Human spleen tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22_i aC. An HRP conjugated goat anti-rabbit antibody was used as the secondary

Western Blotting

Image 2. Western blot analysis SIX4 using K562 whole cell lysates

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