SIX5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SIX5, Polyclonal Antibody
Full Product Name	SIX5 Polyclonal Antibody
Product Gene Name	anti-SIX5 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	74kDa
OMIM	600963
3D Structure	ModBase 3D Structure for Q8N196
Immunogen	Recombinant protein of human SIX5 (NP_787071.2).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SIX5 antibody	Western Blot (WB)
Application Notes for anti-SIX5 antibody	WB: 1:500-1:2000
Related Product Information for anti-SIX5 antibody	The protein encoded by this gene is a homeodomain-containing transcription factor that appears to function in the regulation of organogenesis. This gene is located downstream of the dystrophia myotonica-protein kinase gene. Mutations in this gene are a cause of branchiootorenal syndrome type 2.
Other Notes	Small volumes of anti-SIX5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SIX5 purchase	MBS8570640 is an antibody targeting SIX5. Also known as SIX5 Polyclonal Antibody. Reactive in Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SIX5. It may not necessarily be applicable to this product.

NCBI GI #	40354216
NCBI GeneID	147912
NCBI Accession #	NP_787071.2
UniProt Primary Accession #	Q8N196
UniProt Related Accession #	Q8N196

GenBank Nucleotide #	NP_787071.2
NCBI Official Full Name	homeobox protein SIX5
NCBI Official Synonym Full Names	SIX homeobox 5
NCBI Official Symbol	SIX5
NCBI Official Synonym Symbols	BOR2; DMAHP
UniProt Protein Name	Homeobox protein SIX5
UniProt Synonym Protein Names	DM locus-associated homeodomain protein; Sine oculis homeobox homolog 5
Protein Family	Homeobox protein
UniProt Gene Name	SIX5
UniProt Synonym Gene Names	DMAHP
UniProt Entry Name	SIX5_HUMAN
NCBI Protein Information	homeobox protein SIX5
UniProt Comments for SIX5	SIX5: Transcription factor that is thought to be involved in regulation of organogenesis. May be involved in determination and maintenance of retina formation. Binds a 5'-GGTGTCAG-3' motif present in the ARE regulatory element of ATP1A1. Binds a 5'- TCA[AG][AG]TTNC-3' motif present in the MEF3 element in the myogenin promoter, and in the IGFBP5 promoter. Thought to be regulated by association with Dach and Eya proteins, and seems to be coactivated by EYA1, EYA2 and EYA3. Defects in SIX5 are the cause of branchiootorenal syndrome type 2 (BOR2). BOR is an autosomal dominant disorder manifested by various combinations of preauricular pits, branchial fistulae or cysts, lacrimal duct stenosis, hearing loss, structural defects of the outer, middle, or inner ear, and renal dysplasia. Associated defects include asthenic habitus, long narrow facies, constricted palate, deep overbite, and myopia. Hearing loss may be due to mondini type cochlear defect and stapes fixation. Penetrance of BOR syndrome is high, although expressivity can be extremely variable. Belongs to the SIX/Sine oculis homeobox family. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 19q13.32 Cellular Component: nucleoplasm; Golgi apparatus; intracellular membrane-bound organelle; cytoplasm Molecular Function: protein binding; sequence-specific DNA binding Biological Process: lens development in camera-type eye; transcription, DNA-dependent; negative regulation of transcription, DNA-dependent; spermatid development Disease: Branchiootorenal Syndrome 2
Research Articles on SIX5	**1.** the higher expressions of SIX1-5 were associated with the greater possibility of the tumorigenesis in lung neoplasms
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