Product Name: Six5 Rabbit Polyclonal Antibody
Catalog #: APRab17926

Summary

Production Name	Six5 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC-P
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	SIX5
Alternative Names	SIX5; DMAHP; Homeobox protein SIX5; DM locus-associated homeodomain protein; Sine oculis homeobox homolog 5
Gene ID	147912.0
SwissProt ID	Q8N196.The antiserum was produced against synthesized peptide derived from human SIX5. AA range:201-250

Application

Dilution Ratio	WB 1:500-2000, IHC-P 1:50-300
Molecular Weight	75kDa

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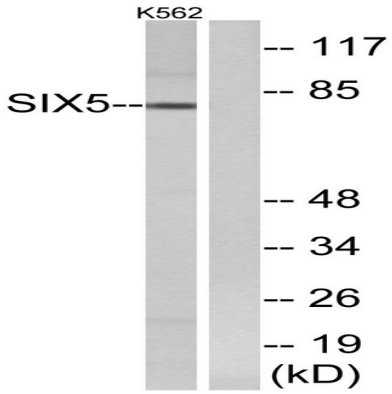
Background

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. [provided by RefSeq, Jul 2009],caution:The region from 1 to 184 was deduced from the genomic sequence and ESTs.,developmental stage:At the begin of fourth week of development detected in cytoplasm of somite cells, and at the end of fourth week is accumulated in the nucleus. Between the sixth and eighth week of development detected in the nucleus of limb bud cells.,disease:Defects in SIX5 are the cause of branchiootorenal syndrome type 2 (BOR2) [MIM:610896]. 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.,function: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 (By similarity). Thought to be regulated by association with Dach and Eya proteins, and seems to be coactivated by EYA1, EYA2 and EYA3.,similarity:Belongs to the SIX/Sine oculis homeobox family.,similarity:Contains 1 homeobox DNA-binding domain.,subunit:Probably binds DNA dimer. Interacts with EYA3, and probably EYA1 and EYA2.,tissue specificity:Expressed in adult but not in fetal eyes. Found in corneal epithelium and endothelium, lens epithelium, ciliary body epithelia, cellular layers of the retina and the sclera.,

Research Area

Image Data



Western blot analysis of lysates from K562 cells, using SIX5 Antibody. The lane on the right is blocked with the synthesized peptide.

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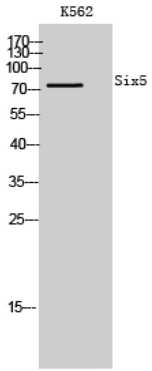

Western Blot analysis of K562 cells using Six5 Polyclonal Antibody

Note

For research use only.