

SIX5 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12740c**Specification**

SIX5 Antibody (Center) - Product Information

Application	IF, IHC-P, WB,E
Primary Accession	Q8N196
Other Accession	P70178 , NP_787071.2
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	74562
Antigen Region	257-286

SIX5 Antibody (Center) - Additional Information**Gene ID** 147912**Other Names**

Homeobox protein SIX5, DM locus-associated homeodomain protein, Sine oculis homeobox homolog 5, SIX5, DMAHP

Target/Specificity

This SIX5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 257-286 amino acids from the Central region of human SIX5.

Dilution

IF~~1:10~50
IHC-P~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SIX5 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

SIX5 Antibody (Center) - Protein Information

Name SIX5**Synonyms** DMAHP

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'-GGTGTCTAG-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 (By similarity).

Cellular Location

Cytoplasm. Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108, ECO:0000269|PubMed:12500905}

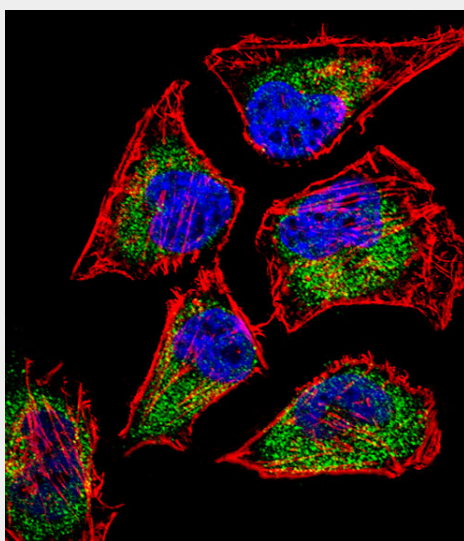
Tissue Location

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

SIX5 Antibody (Center) - Protocols

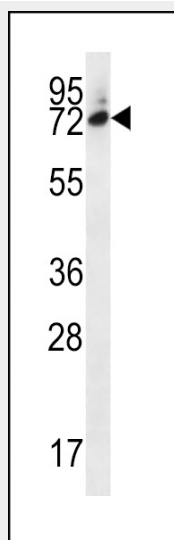
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

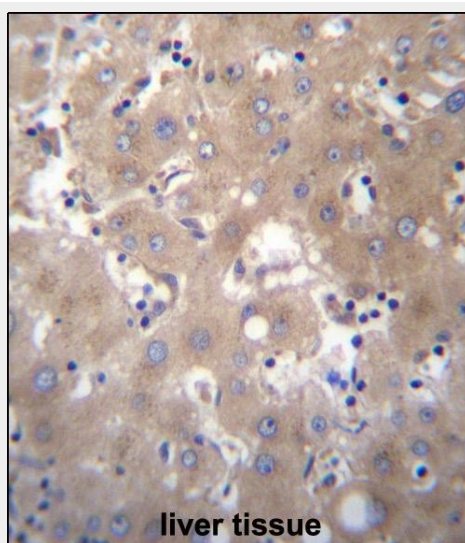
SIX5 Antibody (Center) - Images

Fluorescent confocal image of HeLa cell stained with SIX5 Antibody (Center)(Cat#AP12740c). HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with SIX5 primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor®

488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37°C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/ml, 1 h at 37°C). Nuclei were counterstained with DAPI (blue) (10 µg/ml, 10 min). SIX5 immunoreactivity is localized to Cytoplasm significantly.



SIX5 Antibody (Center) (Cat. #AP12740c) western blot analysis in MDA-MB231 cell line lysates (35 µg/lane). This demonstrates the SIX5 antibody detected the SIX5 protein (arrow).



SIX5 Antibody (Center) (Cat. #AP12740c) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of SIX5 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

SIX5 Antibody (Center) - 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 dystrophin myotonic protein kinase gene. Mutations in this gene are a cause of branchiootorenal syndrome type 2.

SIX5 Antibody (Center) - References

Yoshida, T., et al. Int. J. Mol. Med. 25(4):649-656(2010)
Oguri, M., et al. Am. J. Hypertens. 23(1):70-77(2010)
Hoskins, B.E., et al. Am. J. Hum. Genet. 80(4):800-804(2007)
Sato, S., et al. Hum. Mol. Genet. 11(9):1045-1058(2002)
Fougerousse, F., et al. J. Muscle Res. Cell. Motil. 23(3):255-264(2002)