

For Research Use Only

SIX2 Monoclonal ANTIBODY



Catalog Number: 66347-1-Ig

1 Publications

Basic Information

Catalog Number:
66347-1-Ig

Size:
150 µg/150 µl

Source:
Mouse

Isotype:
IgG2b

Purification Method:
Protein A purification

Immunogen Catalog Number:
AG2124

GenBank Accession Number:
BC024033

GeneID (NCBI):
10736

Full Name:
SIX homeobox 2

Calculated MW:
291aa, 32 kDa

Observed MW:
37 kDa

Recommended Dilutions:
WB 1:1000-1:6000
IHC 1:50-1:500

Applications

Tested Applications:
IHC, WB, ELISA

Cited Applications:
IF, IHC

Species Specificity:
human, rat, dog, mouse, pig

Cited Species:
mouse

Note: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : pig skeletal muscle tissue; HEK-293 cells, NCCIT cell, L02 cells, MDCK cells, rat skeletal muscle tissue

IHC : mouse embryo tissue;

Background Information

The SIX proteins (sine oculis) are a family of homeodomain transcription factors that share a conserved DNA binding domain. Six members (Six1-Six6) of the Six gene family have been identified in mice and humans. SIX2, containing one homeobox DNA-binding domain, is highly expressed in fetal tissues but expression is limited in adult tissues. SIX2 may be involved in limb tendon and ligament development [PMD:21420949]. It has been previously shown that SIX2 is expressed in developing mesenchymal tissue including head and urogenital system at the time of overt midfacial and renal differentiation [PMD: 22282599].

Notable Publications

Author	Pubmed ID	Journal	Application
Bliss Magella	29183737	Dev Biol	IHC, IF

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

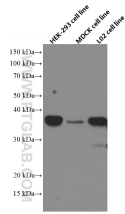
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

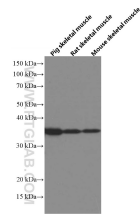
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

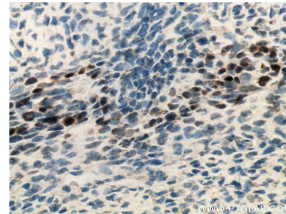
Selected Validation Data



Various cells were subjected to SDS PAGE followed by western blot with 66347-1-Ig (SIX2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours



Various tissues were subjected to SDS PAGE followed by western blot with 66347-1-Ig (SIX2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours



Immunohistochemistry of paraffin-embedded mouse embryo tissue slide using 66347-1-Ig (SIX2 antibody) at dilution of 1:200 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH9).