PRODUCT INFORMATION

Product name : SIX1 antibody Product type : Primary antibodies Description : Mouse monoclonal to SIX1 Immunogen : 1 synthetic peptide (human) conjugated to KLH Reacts with : Hu, Ms Tested applications : ELISA, WB & IF

GENE INFORMATION

Gene Symbol : SIX1 Gene Name : SIX homeobox 1 Ensembl ID : ENSG00000126778 Entrez GeneID : 6495 GenBank Accession number : X91868 Swiss-Prot : Q15475

Molecular weight: 32.2kDa

Function : May be involved in limb tendon and ligament development.

Expected subcellular localization : Nucleus.

Expected tissue specificity : Specifically expressed in skeletal muscle.

Summary : The protein encoded by this gene is a homeobox protein that is similar to the Drosophila 'sine oculis' gene product. This gene is found in a cluster of related genes on chromosome 14 and is thought to be involved in limb development. Defects in this gene are a cause of autosomal dominant deafness type 23 (DFNA23) and branchiootic syndrome type 3 (BOS3). [provided by RefSeq, Jul 2008]

APPLICATION NOTE

Recommended dilution :

- ELISA: Antibody specificity was verified by direct ELISA against the 1 immunogen peptide. A titer of 500 has been determined. Appropriate specificity controls were run.
- WB: Dilution 1/5000
- IF: Dilution 1/50

Optimal dilutions/concentration should be determined by the end user.

Raised in : Mouse Clonality : Monoclonal Isotype : IgG Purity : Purified Antibody Concentration: 2mg/ml Storage buffer : Containing a final concentration of PBS/glycerol (V/V), 0.1% BSA and 0.01% Thimerosal. Form : Liquid Storage instruction : Store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. The monoclonal purified antibody ENSG00000126778 has tested at 1/5000 on uninduced (negative control) and induced culture of E.coli (one shot Top10 competent cells).

An anti-thio has been tested at 1/5000 on induced culture of E.coli (one shot Top10 competent cells) as a positive control.

Clone : 1D2G8G5, Isotype : G1 Plasmid name : pBAD-DEST49.

Molecular weight of SIX1 : 46.2kDa (32.2kDa + another 14kDa for the tag).



NOTE: THE PURIFIED MONOCLONAL ANTIBODY DOES NOT DETECT THE PROTEIN IN THE FOLLOWING CELL LYSATES (HeLa, SAOS 2, SH-SY5Y, SKIN 3.44 & 293T17) AT A DILUTION OF 1:250.

Gel concentration: 10%

Blocking: in 5% non-fat milk-PBST solution 1st Antibody: The antibodies are diluted in blocking buffer.

- Dilute the purified antibody ENSG00000126778 at 1:5000
- Dilute the anti-thio at 1:5000
- 60 minutes of incubation

2nd Antibody: The antibody is diluted in blocking buffer.

- Dilute the anti-Mouse IgG HRP conjugated at 1/10000
- 60 minutes of incubation

IMMUNOFLUORESCENCE ANALYSIS

Immunofluorescence analysis of Homeobox protein SIX1 (SIX1) expression in 6 cells lines (HELA, 293T/17, Capan-2, SAOS-2, SH-SY5Y, Skin 3,44). The monoclonal antibody ENSG00000126778 has been tested at 1/50.

Green staining : cytoskeleton (microtubules/α-tubuline)

Blue staining : nucleus (Hoechst)

Red staining : anti- SIX1 antibody (purified)

Expected subcellular location : Nucleus

Expected tissue specificity : Specifically expressed in skeletal muscle



