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# Product datasheet for TA387471

## SIX1 Rabbit Polyclonal Antibody

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Applications:** | IHC, WB |
| **Recommended Dilution:** | Recommended dilution: WB:1:500-1:5000, IHC:1:200-1:500 |
| **Reactivity:** | Mouse, Rat, Human |
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Immunogen:** | Recombinant Human Homeobox protein SIX1 protein (144-262AA) |
| **Formulation:** | Preservative: 0.03% Proclin 300<br>Constituents: 50% Glycerol, 0.01M PBS, pH 7.4 |
| **Concentration:** | lot specific |
| **Purification:** | >95%, Protein G purified |
| **Conjugation:** | Unconjugated |
| **Storage:** | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |
| **Stability:** | 1 year from dispatch. |
| **Database Link:** | Q15475 |
| **Background:** | Transcription factor that is involved in the regulation of cell proliferation, apoptosis and embryonic development. Plays an important role in the development of several organs, including kidney, muscle and inner ear. Depending on context, functions as transcriptional repressor or activator. Lacks an activation domain, and requires interaction with EYA family members for transcription activation. Mediates nuclear translocation of EYA1 and EYA2. Binds the 5'-TCA[AG][AG]TTNC-3' motif present in the MEF3 element in the MYOG promoter. Regulates the expression of numerous genes, including MYC, CCND1 and EZR. Acts as activator of the IGFBP5 promoter, probably coactivated by EYA2. Repression of precursor cell proliferation in myoblasts is switched to activation through recruitment of EYA3 to the SIX1-DACH1 complex. During myogenesis, seems to act together with EYA2 and DACH2 (By similarity). Regulates the expression of CCNA1. |

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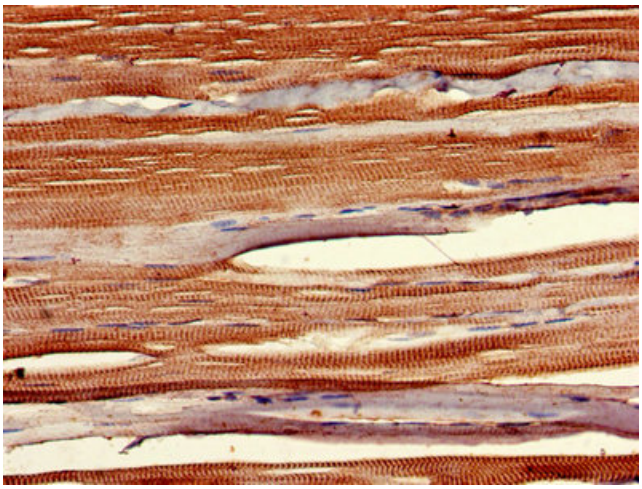
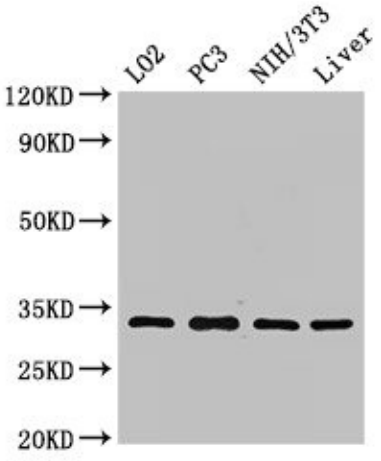
## Product images:



IHC image of TA387471 diluted at 1:400 and staining in paraffin-embedded human skeletal muscle tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.




Western Blot
Positive WB detected in: LO2 whole cell lysate, PC-3 whole cell lysate, NIH/3T3 whole cell lysate, Rat liver tissue
All lanes: SIX1 antibody at 2.7µg/ml
Secondary
Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 33 kDa
Observed band size: 33 kDa