Rabbit anti SOX-6 Polyclonal Antibody

Alternative Name(s): SRY (sex determining region Y)-box 6

Order Information

- **Description:** SOX-6
- **Catalogue:** 601-520
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Rt, Ms

ANTIGEN PREPARATION

A synthetic peptide corresponding to the c-terminus (from 720AA-755aa) of human sox6 protein. This sequence is identical in human, mouse, rat, bovine, canis and chicken species.

BACKGROUND

Members of the SOX gene family encode proteins with homology to the HMG box DNA-binding domain of SRY, the Y-linked testis-determining gene. SOX genes are expressed during embryogenesis and are involved in the development of a wide range of different tissues. Mutations in SRY, SOX9 and SOX10 have been shown to be responsible for XY sex reversal, campomelic dysplasia and Waardenburg-Hirschsprung disease, respectively. It is likely that mutations in other SOX genes are responsible for a variety of human genetic diseases. SOX14 has been identified from a human genomic library and the mouse and chicken sequences obtained by polymerase chain reaction amplification. The SOX14 amino acid sequence is highly conserved across these species, suggesting an important role for this protein in vertebrate development. SOX14 is expressed in the neural tube and apical ectodermal ridge of the developing chicken limb. The SOX14 is associated to limb defects.

PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes ~94 kDa of SOX6 protein. It cross-reacts to human, mouse, rat . The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 90.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

FOR RESEARCH USE ONLY.

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*Optimal dilutions should be determined by researchers for the specific applications.

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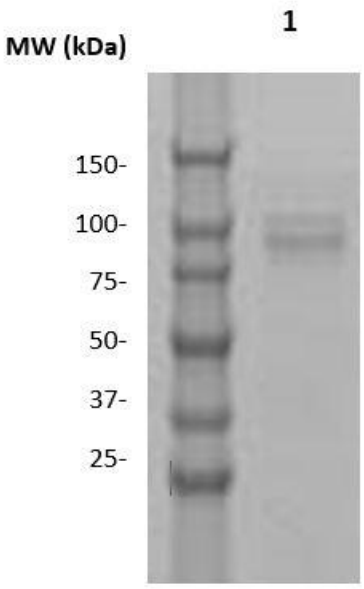
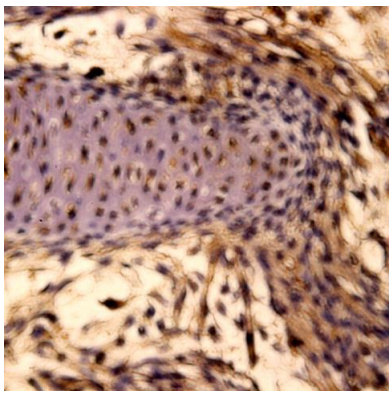
DATA ATTACHMENTS



Western Blot: The whole tissue lysate derived from Mouse embryos (20 ug/lane) was separated in 10% SDS-PAGE, transferred onto NC membrane, and immunoblotted by Rabbit anti –SOX6 (Cat#601-520) antibody at 1:500 . An immunoreactive band around ~94 kDa was observed.



Immunohistochemistry: Mouse embryonic tissue (FFPE) stained with Rabbit antiSOX-6 antibody (Cat# 601-520) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES