

Rabbit anti-human SOX2 Polyclonal Antibody

Catalog Number: R16025P

General Information	
Immunogen	Recombinant protein of human SOX2
IgG type	IgG
Clonality	Polyclonal
Specificity	human SOX2
Applications & dilution	WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purity	≥95% purity by SDS-PAGE
Storage	Store at -20°C. Avoid freeze / thaw cycles.
Abbreviation: ELISA: Enzyme-linked immunosorbent assay; ITA: immunoturbidimetric assay; IP: immunoprecipitation; IHC: immunohistochemistry; IF: immunofluorescence. WB: western blot; FC: flow cytometry	

Background

Embryonic stem cells are derived from the inner cell mass of the blastocyst and are unique in their pluripotent capacity and potential for self-renewal. Sox2 is one of a set of transcription factors that are crucial for the maintenance of pluripotency. Sox2, Oct-4, and Nanog cooperate in this network, and siRNA knockdown of either Sox2 or Oct-4 results in loss of pluripotency. Chromatin immunoprecipitation experiments have shown that Sox2 and Oct-4 bind to thousands of gene regulatory sites, highlighting the importance of these transcription factors in early embryonic development. It has recently been shown that Sox2 is amplified in lung and esophageal squamous cell tumors.

For research use only

Preparation

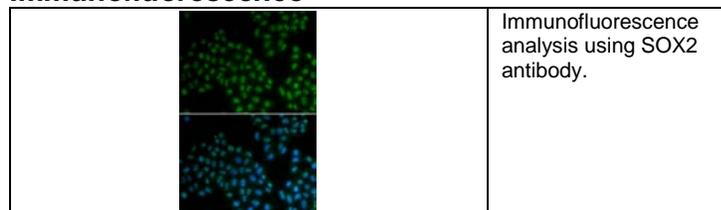
Polyclonal antibody is produced by immunizing rabbit with recombinant protein of human SOX2 and purified using protein A resin.

Applications

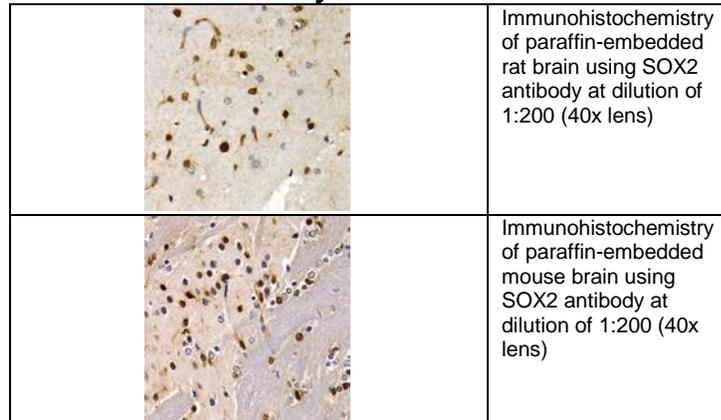
Western blot



Immunofluorescence



Immunohistochemistry



Storage

This antibody is shipped at 4 °C. This product is stable for 12 months from date of receipt when stored at -20 °C to -70 °C. Avoid freeze/thaw cycles.

Hazard/Biohazard

This antibody contains 0.02% sodium azide as preservative. Please handle and dispose the product properly. No known biohazard is associated with this product.