

SOX2 antibody

Catalog No: #38134

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Description

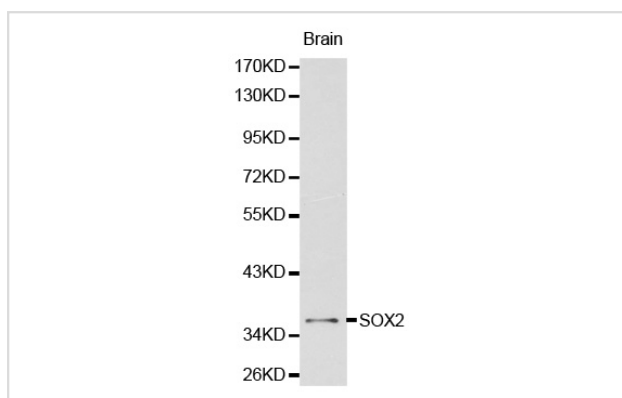
Product Name	SOX2 antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total SOX2 antibody.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human SOX2.
Target Name	SOX2
Other Names	SOX2;ANOP3;MCOPS3;MGC2413;
Accession No.	Swiss-Prot#: P48431NCBI Gene ID: 6657
SDS-PAGE MW	34kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

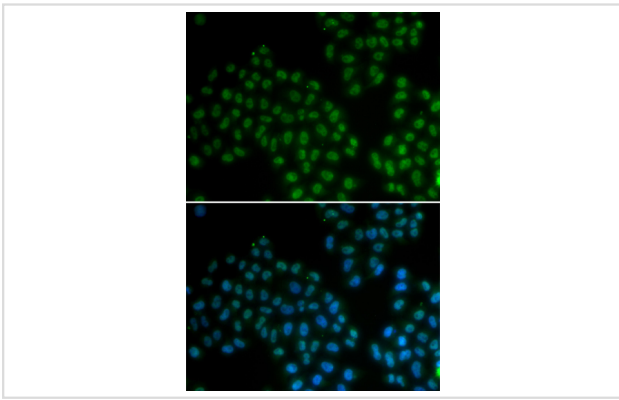
Western blotting: □ 1:500 - 1:2000

Immunofluorescence: □ 1:50 - 1:200

Images



Western blot analysis of brain cell lysate using SOX2 antibody.



Immunofluorescence analysis of MCF7 cell using SOX2 antibody. Blue: DAPI for nuclear staining.

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 (1). Sox2, Oct-4, and Nanog cooperate in this network (1-3), and siRNA knockdown of either Sox2 or Oct-4 results in loss of pluripotency (4,5). 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 (6,7). It has recently been shown that Sox2 is amplified in lung and esophageal squamous cell tumors (8).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.