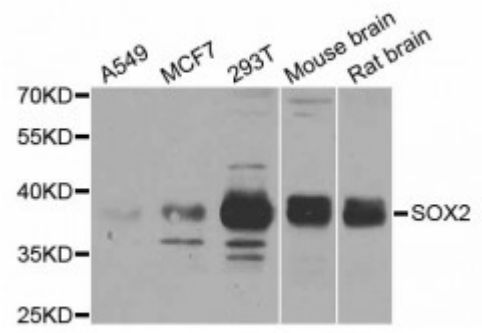
Anti-SOX2 Antibody



Description	This intronless gene encodes a member of the SRY-related HMG-box (SOX) family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. The product of this gene is required for stem-cell maintenance in the central nervous system, and also regulates gene expression in the stomach. Mutations in this gene have been associated with optic nerve hypoplasia and with syndromic microphthalmia, a severe form of structural eye malformation. This gene lies within an intron of another gene called SOX2 overlapping transcript (SOX2OT).

Model	STJ113816
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-140 of human SOX2 (NP_003097.1).
Gene ID	6657
Gene Symbol	SOX2
Dilution range	WB 1:500 - 1:2000
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Transcription factor SOX-2
Molecular Weight	34.31 kDa

Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:11195OMIM:184429Reactome:R-HSA-2892245
Alternative Names	Transcription factor SOX-2
Function	Transcription factor that forms a trimeric complex with OCT4 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206 , Critical for early embryogenesis and for embryonic stem cell pluripotency, May function as a switch in neuronal development, Downstream SRRT target that mediates the promotion of neural stem cell self-renewal , Keeps neural cells undifferentiated by counteracting the activity of proneural proteins and suppresses neuronal differentiation ,
Cellular Localization	Nucleus
Post-translational Modifications	Sumoylation inhibits binding on DNA and negatively regulates the FGF4 transactivation,

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