

For Research Use Only

SOX2 Recombinant antibody

Catalog Number: 83059-5-RR



Basic Information

Catalog Number: 83059-5-RR	GenBank Accession Number: BC013923	Purification Method: Protein A purification
Concentration: 1000 ug/ml	GeneID (NCBI): 6657	CloneNo.: 230225G1
Source: Rabbit	UNIPROT ID: P48431	Recommended Dilutions: IF/ICC 1:150-1:600
Isotype: IgG	Full Name: SRY (sex determining region Y)-box 2	
Immunogen Catalog Number: AG0612	Calculated MW: 34 kDa	

Applications

Tested Applications: IF/ICC, ELISA	Positive Controls: IF/ICC : U-251 cells,
Species Specificity: human	

Background Information

Sox2, also known as SRY (sex determining region Y)-box 2, is a transcription factor essential for maintaining self-renewal of undifferentiated ES cells and is one of the key transcription factors used to reprogram mouse and human fibroblasts to a pluripotent state. Sox2 expressed in undifferentiated pluripotent stem cells and germ cells during development. Affinity purified rabbit anti-Sox2 antibody can be used to demonstrate pluripotency of ES and iPS cells. This antibody is a rabbit polyclonal antibody raised against an internal region of human SOX2, a rare undifferentiated cell population that is intermingled with the Bergmann glia of the adult murine cerebellar cortex, expresses the stem cell markers Sox2 and Nestin, and lacks markers of glial or neuronal differentiation. Sox2-expressing neural stem cells in the subgranular zone (SGZ), a well-known stem cell niche of the adult brain.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

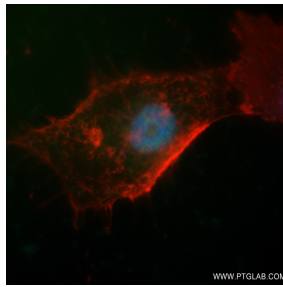
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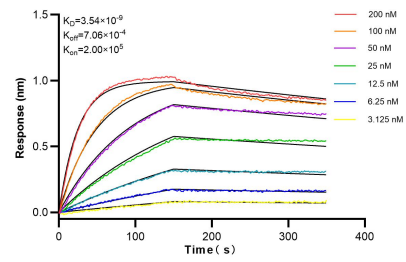
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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed U-251 cells using SOX2 antibody (83059-5-RR, Clone: 230225G1) at dilution of 1:300 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 83059-5-RR against Human SOX2 were performed. The affinity constant is 3.54 nM.