

## Product datasheet for **TA301462**

### SOX2 Rabbit Polyclonal Antibody

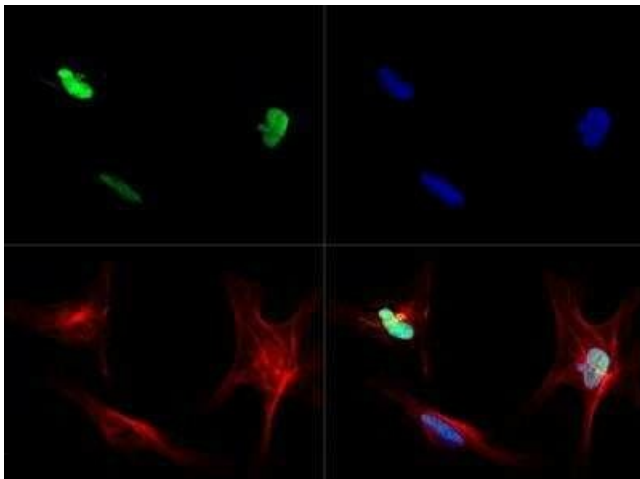
#### Product data:

Product Type:	Primary Antibodies
Applications:	FC, ICC/IF, IHC, WB
Recommended Dilution:	Western Blot: 0.5 ug/mL, Immunocytochemistry/ Immunofluorescence: 1:50 - 1:250, Immunohistochemistry: 1:125 - 1:250, Immunohistochemistry-Paraffin: 1:125 - 1:250, Flow Cytometry: 1:100, Flow (Intracellular): 1:100
Reactivity:	Human, Mouse, Sheep
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide made to the N-terminal region of human SOX2 protein (within residues 1-100). [Swiss-Prot# P48431]
Formulation:	Tris-glycine, 150mM NaCl and 0.05% sodium azide
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	SRY-box 2
Database Link:	<a href="#">NP_003097</a> <a href="#">Entrez Gene 20674 Mouse</a> <a href="#">Entrez Gene 6657 Human</a> <a href="#">P48431</a>
Background:	The SOX (SRY-box containing gene) gene family encodes a group of transcription factors defined by the conserved high motility group (HMG) DNA-binding domain. They are involved in the regulation of embryonic development and in the determination of cell fate.
Synonyms:	ANOP3; MCOPS3
Protein Families:	Adult stem cells, Cancer stem cells, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors

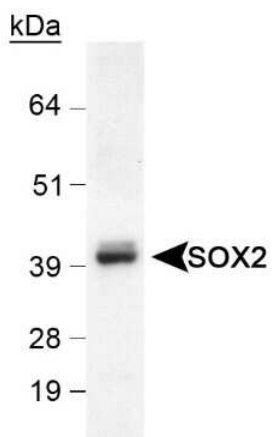


[View online »](#)

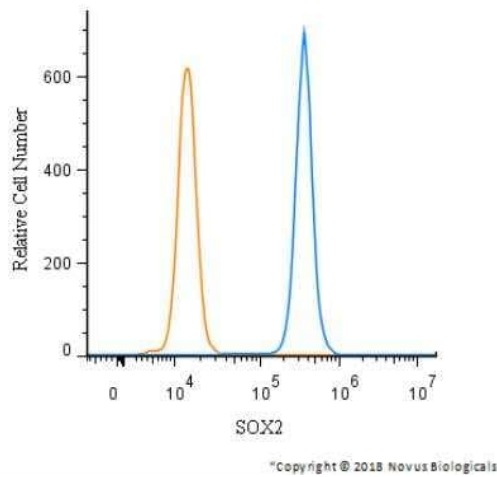
## Product images:



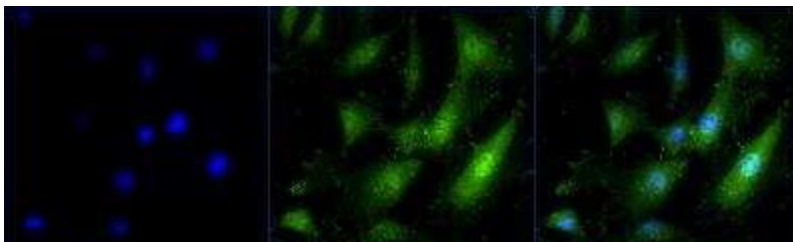
Immunocytochemistry/Immunofluorescence: SOX2 Antibody TA301462 - Staining of SOX2 in NTERA2 cells with Dylight 488 (Green). Alpha-tubulin and nuclei were counterstained with Dylight 550 (Red) and DAPI (Blue), respectively.



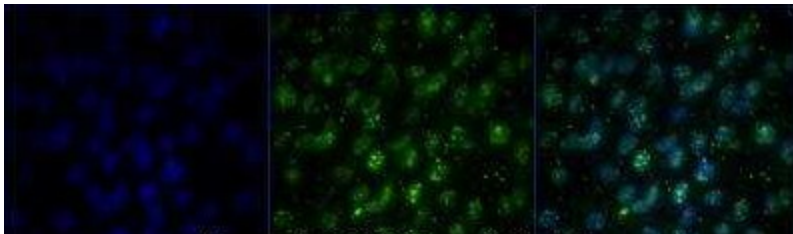
Western Blot: SOX2 Antibody TA301462 - Detection of SOX2 in mouse brain lysate using TA301462 at 0.5 ug/mL.



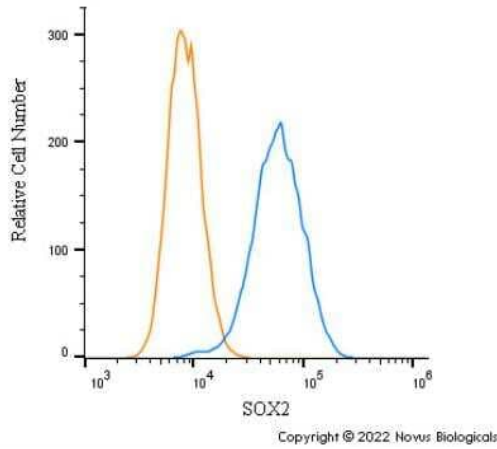
Flow Cytometry: SOX2 Antibody TA301462 - An intracellular stain was performed on A549 with TA301462 and a matched isotype control. Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature, followed by Rabbit IgG (H+L) Cross-Adsorbed Secondary Antibody, Dylight 550.



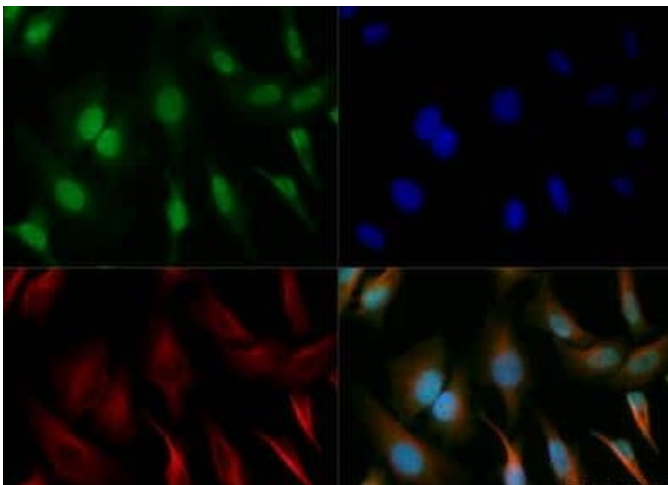
Immunocytochemistry/Immunofluorescence: SOX2 Antibody - BSA Free TA301462 - Rat FR cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.5% Triton X-100 in PBS for 5 minutes. The cells were incubated with SOX2 Antibody (TA301462) at 2ug/ml overnight at 4C and detected with an anti-rabbit DyLight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



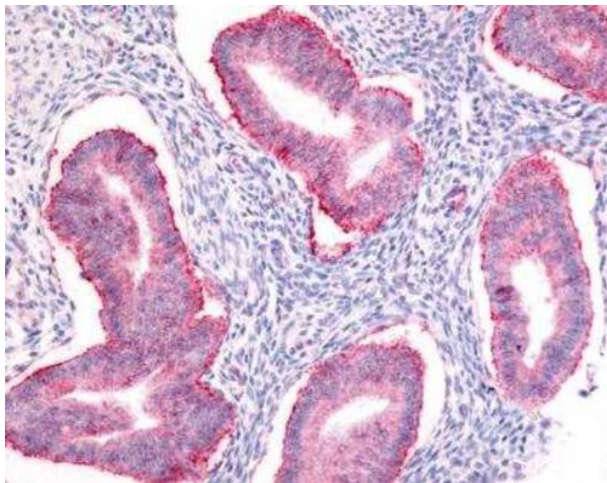
Immunocytochemistry/Immunofluorescence: SOX2 Antibody - BSA Free TA301462 - NIH3T3 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.5% Triton X-100 in PBS for 5 minutes. The cells were incubated with SOX2 Antibody (TA301462) at 2ug/ml overnight at 4C and detected with an anti-rabbit DyLight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Flow Cytometry: SOX2 Antibody - BSA Free TA301462 - An intracellular stain was performed on U-251 MG cells with SOX2 Antibody TA301462 (blue) and a matched isotype control NBP2-24891 (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature, followed by Rabbit IgG (H+L) Cross-Adsorbed Secondary Antibody, Dylight 550 (SA5-10033, Thermo Fisher).



Immunocytochemistry/Immunofluorescence: SOX2 Antibody TA301462 - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with anti-SOX2 (TA301462) at a 1:200 dilution overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Alpha tubulin was used as a co-stain at a 1:1000 dilution and detected with and anti-mouse Dylight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Immunohistochemistry-Paraffin: SOX2 Antibody TA301462 - Staining of human uterus, endometrial glands.