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Anti-SOX2 Antibody

Our Anti-SOX2 rabbit polyclonal primary antibody from PhosphoSolutions is produced in-house. It dete
Catalog # AN1557

Product Information

Application	WB, ICC
Primary Accession	P48431
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	34310

Additional Information

Gene ID	6657
Other Names	SRY box 2, sex-determining region Y box 2
Target/Specificity	SOX2 (SRY (sex-determining region Y)-box 2) is one of 20 members of the Sox family proteins that play essential roles in cell differentiation, development, and organogenesis. SOX2, a group B Sox family protein, is one of the master transcriptional factors, along with Oct3/4 (Nichols, J., et al, 1998) and PAK6 (Kamachi, Y. et al, 2001) that are important in maintaining the pluripotency of embryonic stem cells, thus making SOX2 an excellent marker of neural stem cells. SOX2 has also been identified as a lineage-survival oncogene in lung and esophageal squamous cell carcinomas due to peak amplification on chromosome 3q26.33 which contains the SOX2 gene transcription factor (Bass, A.J., et al, 2009). Additionally, Sox2 has been reported to be highly deregulated in glioblastomas (Gangemi, R. M. R, et al, 2009) and breast cancer (Rodriguez-Pinilla, S.M., et al, 2007).
Dilution	WB~~1:1000 ICC~~N/A
Format	Antigen Affinity Purified from Pooled Serum
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-SOX2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

Background

SOX2 (SRY (sex-determining region Y)-box 2) is one of 20 members of the Sox family proteins that play essential roles in cell differentiation, development, and organogenesis. SOX2, a group B Sox family protein,

is one of the master transcriptional factors, along with Oct3/4 (Nichols, J., et al, 1998) and PAK6 (Kamachi, Y. et al, 2001) that are important in maintaining the pluripotency of embryonic stem cells, thus making SOX2 an excellent marker of neural stem cells. SOX2 has also been identified as a lineage-survival oncogene in lung and esophageal squamous cell carcinomas due to peak amplification on chromosome 3q26.33 which contains the SOX2 gene transcription factor (Bass, A.J., et al, 2009). Additionally, Sox2 has been reported to be highly deregulated in glioblastomas (Gangemi, R. M. R, et al, 2009) and breast cancer (Rodriguez-Pinilla, S.M., et al, 2007).