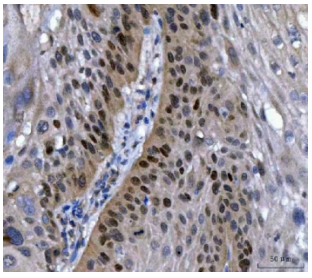
SOX2 Antibody (R31408)

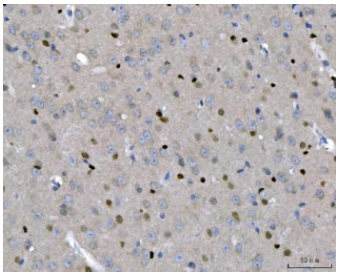
Catalog No.	Formulation	Size
R31408	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

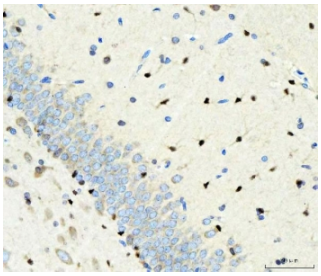
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P48431
Localization	Cytoplasmic, nuclear
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml
Limitations	This SOX2 antibody is available for research use only.



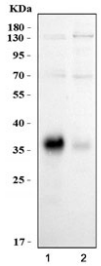
IHC staining of FFPE human laryngeal squamous cell carcinoma tissue with SOX2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE mouse brain tissue with SOX2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat brain tissue with SOX2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) U-251 and 2) 293T cell lysate with SOX2 antibody. Predicted molecular weight: ~34kDa.

Description

SRY (sex determining region Y)-box 2 is a transcription factor that is essential for maintaining self-renewal, or pluripotency of undifferentiated embryonic stem cells. The protein is a member of the Sox family of transcription factors, which have been shown to play key roles in many stages of mammalian development. It was found that SOX2 can regulate OCT3/4 expression and maintains ES pluripotency through upstream transcription factors. It is identified as a lineage-survival oncogene in lung and esophageal squamous cell carcinoma. In addition to those, it has a critical role in maintenance of embryonic and neural stem cells and holds great promise in research involving induced pluripotency, an emerging and very promising field of regenerative medicine.

Application Notes

The stated application concentrations are suggested starting points. Titration of the SOX2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 171-183 (YSMMQDQLGYPQH) were used as the immunogen for this SOX2 antibody.

Storage

After reconstitution, the SOX2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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