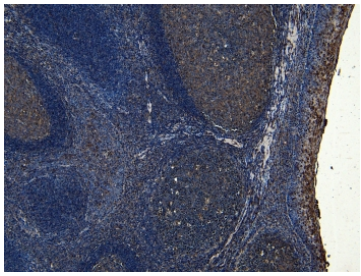
SOX2 Antibody / SRY related HMG box 2 (R36499)

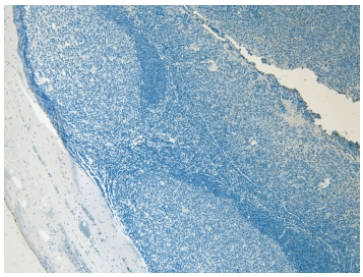
Catalog No.	Formulation	Size
R36499-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

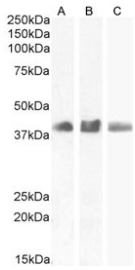
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
UniProt	P48431
Localization	Cytoplasmic, nuclear
Applications	Western blot: 0.1-0.3ug/ml Immunohistochemistry (FFPE): 6-8ug/ml Flow cytometry: 1ug/million cells in 0.1ml ELISA (peptide) LOD: 1:32000
Limitations	This SOX2 antibody is available for research use only.



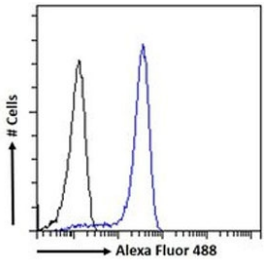
IHC staining of FFPE human tonsil tissue with SOX2 antibody at 8ug/ml. Required HIER: steamed antigen retrieval with pH6 citrate buffer; HRP-staining.



Negative control: IHC staining of FFPE human tonsil tissue without primary antibody. HIER: steamed with pH6 citrate buffer, HRP-staining.



Western blot testing of human A) MCF7, 2) HEK293 and C) nuclear fraction MCF7 cell lysate with SOX2 antibody. Predicted molecular weight ~34 kDa.



FACS testing of fixed and permeabilized human HEK293 cells with SOX2 antibody (blue) at 1ug/million cells/0.1ml and naive goat Ig (black).

Description

The SOX2 protein is involvement in embryonic development. It plays a significant role in maintaining the pluripotency of embryonic stem cells, ensuring that they have the potential to differentiate into any cell type within the body. Studies have shown that aberrant expression of SOX2 is associated with various types of cancer, including lung, breast, and brain tumors.

Application Notes

Optimal dilution of the SOX2 antibody should be determined by the researcher.

Immunogen

Amino acids YNMMETELKPPGPQQ were used as the immunogen for this SOX2 antibody.

Storage

Aliquot and store the SOX2 antibody at -20oC.

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