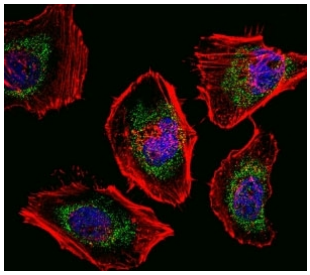
SOX4 Antibody (F47903)

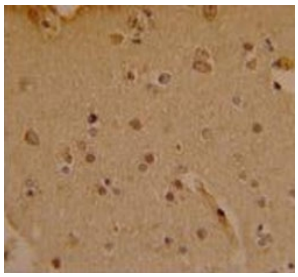
Catalog No.	Formulation	Size
F47903-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F47903-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

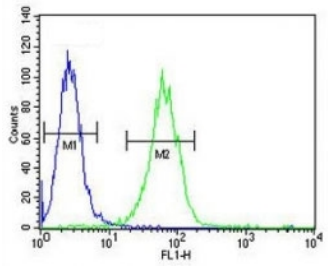
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	Q06945
Localization	Nuclear, cytoplasmic
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:50-1:100 Flow Cytometry : 1:10-1:50 Immunofluorescence : 1:10-1:50
Limitations	This SOX4 antibody is available for research use only.



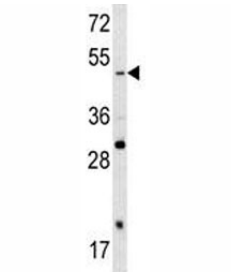
Fluorescent confocal image of HeLa cells stained with SOX4 antibody. Alexa Fluor 488 conjugated secondary (green) was used. SOX4 immunoreactivity is localized to mitochondria strongly and nucleus weakly.



IHC analysis of FFPE human brain stained with SOX4 antibody



SOX4 antibody flow cytometric analysis of A2058 cells (green) compared to a negative control (blue). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.



Western blot analysis of SOX4 antibody and A2058 lysate. Expected/observed molecualr weight ~47 kDa.

Description

SOX4 is a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. The protein may act as a transcriptional regulator after forming a protein complex with other proteins, such as syndecan binding protein (syntenin). The protein may function in the apoptosis pathway leading to cell death as well as to tumorigenesis and may mediate downstream effects of parathyroid hormone (PTH) and PTH-related protein (PTHrP) in bone development. The solution structure has been resolved for the HMG-box of a similar mouse protein.

Application Notes

Titration of the SOX4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 86-114 from the human protein was used as the immunogen for this SOX4 antibody.

Storage

Aliquot the SOX4 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.