Anti-Sox10 Purified  
Catalog Number: 14-5923  
Also known as: SRY-Related HMG-Box Gene 10  

Product Information

| Contents: Anti-Sox10 Purified  
Catalog Number: 14-5923  
Clone: 20B7  
Concentration: 0.5 mg/mL  
Host/Isotype: Mouse IgG1, kappa | Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer  
Temperature Limitation: Store at 2-8°C.  
Batch Code: Refer to vial  
Use By: Refer to vial  
Contains sodium azide |

Description

The monoclonal antibody 20B7 recognizes Sox10, is a member of the Sox superfamily (SRY-related HMG-box) that contain a DNA binding domain (high-mobility group domain) and functions as a transcription factor. Initially, Sox10 expression is localized to the developing neural crest and peripheral nervous system, but later is expressed in glial progenitors and mature oligodendrocytes. Sox10 is involved in stem cell maintenance, melanocyte differentiation, as well as central and peripheral gliogenesis and neurogenesis. Sox10 regulation of downstream proteins such as MASH1, PHOX2B, PDGF-alpha, and MITF is dependent on expression level. Sox10 is also expressed in multipotent vascular stem cells, melanomas, and gliomas.

The 20B7 antibody is reported to recognize human and rat Sox 10, and based on homology should recognize mouse Sox10.

Applications Reported

This 20B7 antibody has been reported for use in immunohistochemical staining of frozen tissue sections, immunohistochemical staining of formalin-fixed paraffin embedded tissue sections, microscopy, and immunocytochemistry.

Applications Tested

This 20B7 antibody has been tested by immunocytochemistry of formaldehyde fixed and permeabilized rat cells. This 20B7 antibody has also been tested by immunohistochemistry of human formalin-fixed paraffin embedded tissue sections using low pH antigen retrieval and can be used at less than or equal to 10 ug/mL for both applications. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Ferletta M, Uhrbom L, Olofsson T, Pontén F, Westermark B. Sox10 has a broad expression pattern in gliomas and enhances platelet-derived growth factor-B-induced gliomagenesis. Mol Cancer Res. 2007 5(9):891-7.


Related Products

00-4953 IHC /ICC Blocking Buffer - Low Protein  
00-4954 20X TBS Wash Buffer for IHC/ICC  
00-4955 IHC Antigen Retrieval Solution – Low pH (10X)  
13-4013 Anti-Mouse IgG Biotin (Polyclonal)  
14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.8.1)