DATASHEET

SOX10 Rabbit Monoclonal Antibody(ARA507)

CAT. NO. ARA5831

KEY FEATURES

Target:	SOX10	**Clone ID:**	ARA507
Source/Host:	Rabbit	**Reactivity:**	Human
Clonality:	Monoclonal	**Applications:**	IHC
Storage:	at-20°C		

BACKGROUND

SOX10 encodes a member of the SOX (SRY-related HMG-box) family of transcription factors that regulate embryonic development and cell fate determination. As a key regulator of neural crest development, SOX10 is required for the specification, maturation and maintenance of Schwann cells and melanocytes, and plays an essential role in the development of the enteric nervous system. The encoded protein functions as a nucleocytoplasmic shuttle protein and acts as a transcriptional activator after forming a protein complex with other proteins. Mutations in SOX10 are associated with Waardenburg-Shah syndrome and Waardenburg-Hirschsprung disease. In diagnostic immunohistochemistry, SOX10 is a sensitive nuclear marker for malignant melanoma, schwannoma, neurofibroma and other neural crest-derived or nerve sheath tumours, and is also expressed in myoepithelial cells of the breast and salivary gland as well as in a subset of breast and salivary gland tumours. It is widely used to differentiate melanoma from other spindle cell and epithelioid neoplasms and to confirm the neural or melanocytic lineage of a tumour.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

IHC	1:1000-1:2000

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Description	Recombinant rabbit monoclonal antibody to SOX10
Antibody Type	Primary antibody,Recombinant
Immunogen	Synthetic peptide within C terminal human SOX10.
Purification	Protein A affinity purified.
Molecular Weight	Predicted: 50 kD; Observed: 60-75 kDa
Isotype	IgG
Form/Buffer	50% Glycerol/PBS with 1% BSA and 0.09% sodium azide
Alternative Names	DOM; dominant megacolon mouse human homolog of; MGC15649; PCWH; SOX 10; SOX10; SRY (sex determining region Y) box 10; SRY box 10; SRY box containing gene 10; SRY related HMG box gene 10; Transcription factor SOX 10; Transcription factor SOX-10; WS2E; WS4; WS4C
Gene Symbol	SOX10
Entrez Gene	6663(Human)
SwissProt	P56693(Human)

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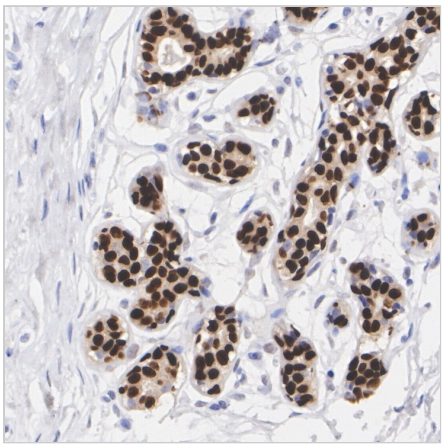
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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DATA



Immunohistochemical analysis of paraffin-embedded human breast tissue with SOX10 Rabbit Monoclonal Antibody(ARA507) at 1:1,000 dilution. Detection with HRP conjugated compact polymer system, DAB chromogen; counterstained with hematoxylin.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com