

DATASHEET

SOX10 Rabbit Monoclonal Antibody(C937)

CAT. NO. AMA00549

KEY FEATURES

Target	SOX10	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Monoclonal
Applications	WB, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in PBS, pH 7.4, containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Transcription factor that plays a central role in developing and mature glia . Specifically activates expression of myelin genes, during oligodendrocyte (OL) maturation, such as DUSP15 and MYRF, thereby playing a central role in oligodendrocyte maturation and CNS myelination . Once induced, MYRF cooperates with SOX10 to implement the myelination program . Transcriptional activator of MITF, acting synergistically with PAX3 maturation, such as DUSP15 and MYRF, thereby playing a central role in oligodendrocyte maturation and CNS myelination . Once induced, MYRF cooperates with SOX10 to implement the myelination program . Transcriptional activator of MITF, acting synergistically with PAX3 . Transcriptional activator of MBP, via binding to the gene promoter .

APPLICATION

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

WB	1:500 - 1:1000
IF/ICC	1:50 - 1:200

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

PRODUCT OVERVIEW

Description	Recombinant rabbit monoclonal antibody to SOX10
Specificity	Recognizes endogenous levels of SOX10 protein
Antibody Type	Primary antibody, Recombinant
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within human SOX10. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 49 kD; Observed: 56 kD
Form/Buffer	Liquid in PBS, pH 7.4, containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.
Alternative Names	Transcription factor SOX-10
Gene Symbol	SOX10
Entrez Gene	6663(Human); 20665(Mouse); 29361(Rat)
SwissProt	P56693(Human); Q04888(Mouse); O55170(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

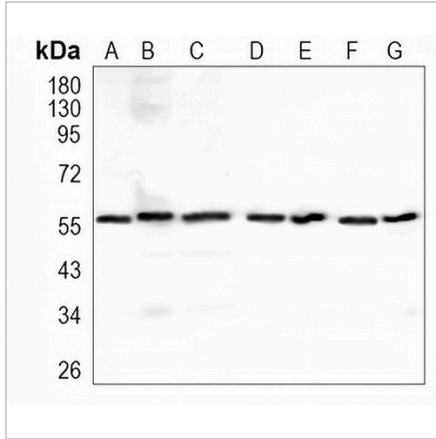
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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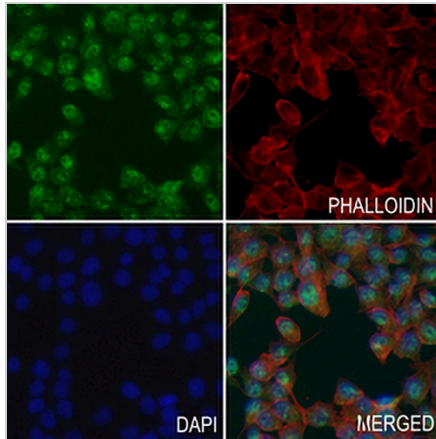
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Western blot analysis of SOX10 expression in H1792 (A), Myla2059 (B), LO2 (C), mouse brain (D), mouse muscle (E), rat brain (F), rat muscle (G) whole cell lysates. (Predicted band size: 49 kD; Observed band size: 56 kD)



Immunofluorescent analysis of SOX10 staining in HCT116 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 488 -conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AREX® Fluor 594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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.