

DATASHEET
SOX9 Mouse Monoclonal Antibody(C3793)
CAT. NO. AMA03405
KEY FEATURES

| | | | |
|---------------|---|---------------|--------------|
| Target | SOX9 | Source / Host | Mouse |
| Reactivity | Human | Clonality | Monoclonal |
| Applications | WB | Conjugation | Unconjugated |
| Form / Buffer | Mouse IgM. Supplied in crude ascites with 0.01% sodium azide. | Storage | at-20°C |

BACKGROUND

Transcription factor that plays a key role in chondrocytes differentiation and skeletal development . Specifically binds the 5'-ACAAAG-3' DNA motif present in enhancers and super-enhancers and promotes expression of genes important for chondrogenesis, including cartilage matrix protein-coding genes COL2A1, COL4A2, COL9A1, COL11A2 and ACAN, SOX5 and SOX6 . Also binds to some promoter regions . Plays a central role in successive steps of chondrocyte differentiation . Absolutely required for precartilaginous condensation, the first step in chondrogenesis during which skeletal progenitors differentiate into prechondrocytes .

APPLICATION

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

| | |
|----|-----------------|
| WB | 1:1000 - 1:5000 |
|----|-----------------|

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

PRODUCT OVERVIEW

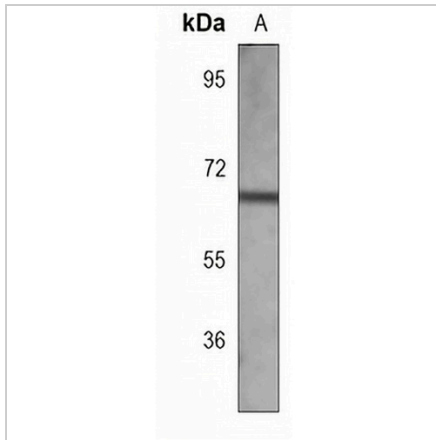
| | |
|-------------------|---|
| Description | Mouse monoclonal antibody to SOX9 |
| Specificity | Recognizes endogenous levels of SOX9 protein. |
| Antibody Type | Primary antibody |
| Immunogen | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SOX9. The exact sequence is proprietary. |
| Molecular Weight | Predicted: 56 kD; Observed: 70 kD |
| Form/Buffer | Mouse IgM. Supplied in crude ascites with 0.01% sodium azide. |
| Alternative Names | Transcription factor SOX-9 |
| Gene Symbol | SOX9 |
| Entrez Gene | 6662(Human) |
| SwissProt | P48436(Human) |

*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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DATA

Western blot analysis of SOX9 expression in HepG2 (A) whole cell lysates. (Predicted band size: 56 kD; Observed band size: 70 kD)

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.