Anti-Sox9

Polyclonal Antibody

Cat. # AB5535
Lot # 3063352

Pack Size: **100 µg**
Concentration **1.0 mg/ml**
Storage: 2-8ºC

FOR RESEARCH USE ONLY
NOT FOR USE IN DIAGNOSTIC PROCEDURES
NOT FOR HUMAN OR ANIMAL CONSUMPTION

Certificate of Analysis

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Applications	Species Cross-Reactivity	Antibody Isotype	Epitope/ Region	Host Species	Molecular Weight	Accession #
WB, IH, ChIP, ChIP-seq, ICC, IF	H, M, R, Ch, (Bo), (Eq), (Fe), (Ov)	N/A	C-terminal	Rb	~65 kDa	P48436

Immunogen
KLH-conjugated linear peptide corresponding to the C-terminal sequence of human Sox9.

Specificity
Recognizes Sox9.

Species Cross-reactivity
Human (H), Mouse (M), Rat (R), Chicken (Ch). Predicted to react with Bovine (Bo), Equine (Eq), Feline (Fe), and Ovine (Ov) based on 100% sequence homology.

Molecular Weight
~56-65 kDa observed.

Method of Purification
Affinity purified.

Presentation
Purified rabbit polyclonal antibody in buffer containing 0.1M Tris-Glycine (pH 7.4) 150mM NaCl with 0.05% sodium azide without glycerol.

Storage and Handling
Stable for 6 months at 2-8°C in undiluted aliquots from date of receipt.

Quality Control Testing
Evaluated by Western Blotting in L6 cell lysate.

Western Blotting Analysis (WB): An 1:2000 dilution of this antibody detected Sox9 in L6 rat skeletal muscle myoblast lysate.

Additional Applications
Immunohistochemistry (IH) Analysis: An 1:1,000 dilution from a representative lot detected Sox9 in murine embryonic bone and adult cartilage tissue sections.

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Additional Applications

Western Blotting Analysis: An 1:500 dilution from a representative lot detected Sox9 in human PC3 prostate cancer cells and HepG2 hepatocytes.

Chromatin Immunoprecipitation (ChIP) Analysis: A representative lot detected Sox9 occupancy at target chromatin sites by ChIP using chromatin preparations from P1 post-natal mouse rib chondrocytes (Ohba, S., et al. (2015). Cell Rep. 12(2):229-243).

Chromatin Immunoprecipitation (ChIP) Analysis: A representative lot detected Sox9 occupancy at the Bmi promoter in Z/sox9tg but not in wild-type control mouse embryonic fibroblasts/MEFs (Matheu, A., et al. (2012). Cancer Res. 72(5):1301-1315).

ChIP-sequencing (ChIP-seq) Analysis: A representative lot detected Sox9-targeted chromatin sites by a genome-wide ChIP-seq analysis using chromatin preparations from P1 post-natal mouse rib chondrocytes (Ohba, S., et al. (2015). Cell Rep. 12(2):229-243)

Immunofluorescence (IF) Analysis: A representative lot detected the accumulation of Sox9-positive oval cells by fluorescent immunohistochemistry staining of paraffin-embedded liver sections from transgenic mice treated with diethylnitrosamine to induce conditional liver HNF4a knockout (Saha, S.K., et al. (2014). Nature. 513(7516):110-114).

Immunofluorescence Analysis: Representative lots detected Sox9 immunoreactivity in paraffin-embedded mouse embryo sections by fluorescent immunohistochemistry (Carrasco, M., et al. (2012). J. Clin. Invest. 122(10):3504-3515; Sylva, M., et al. (2011). PLoS One. 6(8):e22616).

Immunofluorescence Analysis: Representative lots immunostained Müller glial cells in frozen mouse and chicken retina sections by fluorescent immunohistochemistry staining of (Muranishi, Y., and Furukawa, T. (2012). J. Biomed. Biotechnol. 2012:973140; Fischer, A.J., et al. (2011). Neuroscience. 178:250-260).

Immunohistochemistry Analysis: A representative lot immunostained the supporting cells (Sertoli) of the seminiferous tubules by immunohistochemistry staining of paraffin-embedded mouse testis sections (O'Shaughnessy, P.J., et al. (2012). PLoS One. 7(4):e35136).

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Additional Applications

Immunocytochemistry Analysis: A representative lot detected the stem cell marker Sox9 by fluorescent immunocytochemistry staining of paraformaldehyde-fixed E-Cad/Lgr6+ human lung stem cells (HLSCs) clonally derived and passaged in culture (Oeztuerk-Winder, F., et al. (2012). EMBO J. 31(16):3431-3441).

Immunohistochemistry Analysis: A representative lot detected Sox9 immunoreactivity in various formalin-fixed, paraffin-embedded human tumor tissue sections (Matheu, A., et al. (2012). Cancer Res. 72(5):1301-1315).

Western Blotting Analysis: A representative lot detected the stem cell marker Sox9 in E-Cad/Lgr6+ human lung stem cells (HLSCs) clonally derived and passaged in culture (Oeztuerk-Winder, F., et al. (2012). EMBO J. 31(16):3431-3441).

Western Blotting Analysis: A representative lot detected upregulated Sox9 expression level in human colorectal cancer cell lines, HCT116, DLD1, and SW620 (Matheu, A., et al. (2012). Cancer Res. 72(5):1301-1315).

For sample data please visit – www.emdmillipore.com