

Datasheet: MCA4974Z

BATCH NUMBER 168689

Description:	MOUSE ANTI HUMAN SOX9:Preservative Free
Specificity:	SOX9
Format:	Preservative Free
Product Type:	Monoclonal Antibody
Clone:	3C10
Isotype:	IgG2a
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin	▪			0.1 - 10 ug/ml
Western Blotting	▪			0.1 - 10 ug/ml
Immunofluorescence	▪			0.1 - 10 ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from ascites
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Approx. Protein Concentrations	Ig concentration 0.5 mg/ml
Immunogen	Recombinant protein corresponding to aa 400-510 of human SOX9

**External Database
Links**

UniProt:

[P48436](#) [Related reagents](#)

Entrez Gene:

[6662](#) SOX9 [Related reagents](#)

RRID AB_2194161

Fusion Partners Spleen cells from BALB/c mice were fused with cells from the Sp2/0 myeloma cell line.

Specificity **Mouse anti Human SOX9 antibody, clone 3C10** recognizes human Transcription factor SOX-9, also known SOX9, a 509 amino acid ~56 kDa transcription factor.

Mutation of the SOX9 gene can lead to development of Campomelic dysplasia ([CMD1](#)) an osteochondrodysplasia with bowing and angulation of the long bones along with other skeletal malformations ([Kwok et al. 1995](#)). Mutation can also lead to 46,XX sex reversal 2 ([SRXX2](#)) presenting with male gonads in a genetic female ([Cox et al. 2011](#)) or 46,XY sex reversal 10 ([SRXY10](#)) with gonadal dysgenesis ([Kim et al. 2015](#)).

References 1. Menzel-severing, J. *et al.* (2018) Transcription factor profiling identifies Sox9 as regulator of proliferation and differentiation in corneal epithelial stem/progenitor cells. [Sci Rep. 8 \(1\): 10268.](#)

Storage Store at -20°C only.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

**Health And Safety
Information** Material Safety Datasheet documentation #10162 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA4974Z>
10162

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M405952:220916'

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