

Datasheet: MCA5225Z

Description:	MOUSE ANTI HUMAN OSTEOCALCIN:Preservative Free
Specificity:	OSTEOCALCIN
Other names:	Bone Gla Protein
Format:	Preservative Free
Product Type:	Monoclonal Antibody
Clone:	2D4
Isotype:	IgG1
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
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 52-100 of human osteocalcin.
External Database Links	UniProt:

Entrez Gene:

[632](#) BGLAP [Related reagents](#)

RRID	AB_2065035
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Fusion Partners	Spleen cells from BALB/c mice were fused with cells from the Sp2/0 myeloma cell line.
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Specificity	Mouse anti Human osteocalcin antibody, clone 2D4 recognizes human osteocalcin, also known as bone gla protein or Gamma-carboxyglutamic acid-containing protein. Osteocalcin is a 49 amino acid ~5 kDa calcium-binding bone protein comprising ~1-2% total bone protein mass. Osteocalcin also has an additional 28 amino acid propeptide region along with a 23 amino acid signal peptide region.
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References	<ol style="list-style-type: none">1. Kover, K. <i>et al.</i> (2011) Bone marrow cavity: a supportive environment for islet engraftment. Islets. 3: 93-101.2. Oliveira, M.B. <i>et al.</i> (2016) Autonomous osteogenic differentiation of hASCs encapsulated in methacrylated gellan-gum hydrogels. Acta Biomater. 41: 119-32.3. Mizoshiri, N. <i>et al.</i> (2015) Transduction of Oct6 or Oct9 gene concomitant with Myc family gene induced osteoblast-like phenotypic conversion in normal human fibroblasts. Biochem Biophys Res Commun. 467 (4): 1110-6.
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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.
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Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10162 available at: https://www.bio-rad-antibodies.com/SDS/MCA5225Z 10162
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 ,

[FITC](#), [HRP](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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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
'M405957:220916'

Printed on 19 Jan 2024

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