

Datasheet: 0400-0041

BATCH NUMBER 163604

Description:	MOUSE ANTI HUMAN OSTEOCALCIN
Specificity:	OSTEOCALCIN
Other names:	BONE GLA PROTEIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	2H9F11F8
Isotype:	IgG2a
Quantity:	0.2 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
ELISA	▪			

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 the appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Rabbit, Pig, Rat, Bovine

Does not react with: Mouse

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	1.0 mg/ml
Immunogen	Recombinant human osteocalcin GST fusion protein.
External Database Links	<p>UniProt: P02818 Related reagents</p> <p>Entrez Gene: 632 BGLAP Related reagents</p>
RRID	AB_617357
Specificity	<p>Mouse anti Human Osteocalcin antibody, clone 2H9F11F8 recognizes intact human and bovine osteocalcin in a "2 site" assay and reacts with osteocalcin fragments corresponding to amino acids 15-31 and 20-43 of the native molecule. It does not recognize fragments representing amino acids 1-19 or 7-19.</p> <p>Osteocalcin (Bone Gla Protein) is a 49 amino acid single chain vitamin K dependent protein (MW 5.8 kDa), made by osteoblasts that is a major component of the non-collagenous bone matrix. Serum osteocalcin is elevated in diseases characterized by increased bone turnover such as osteoporosis, hyperparathyroidism and Paget's disease, and low in conditions associated with low bone turnover such as hypoparathyroidism and growth hormone deficiency.</p>
References	<ol style="list-style-type: none"> 1. Rehder, D.S. <i>et al.</i> (2015) Gamma-carboxylation and fragmentation of osteocalcin in human serum defined by mass spectrometry. Mol Cell Proteomics. 14 (6): 1546-55. 2. Käkönen, S-M. <i>et al.</i> (2005) Method for prediction of bone fractures by osteocalcin measurements US Patent: US6967081B1
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/0400-0041 10040

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 \(MCA929\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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
'M405248:220916'

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