

Datasheet: 0400-0041

Description:	MOUSE ANTI HUMAN OSTEOCALCIN
Specificity:	OSTEOCALCIN
Other names:	BONE GLA PROTEIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	2H9F11F8
lsotype:	lgG2a
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 <u>www.bio-rad-antibodies.com/protocols</u> .						
		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	0.09% Sodium Azide (NaN ₃)						

Stabilisers

Carrier Free	Yes
Approx. Protein Concentrations	1.0 mg/ml
Immunogen	Recombinant human osteocalcin GST fusion protein.
External Database Links	UniProt: <u>P02818</u> Related reagents
	Entrez Gene: <u>632</u> BGLAP <u>Related reagents</u>
RRID	AB_617357
Specificity	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.
	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.
References	 Rehder, D.S. <i>et al.</i> (2015) Gamma-carboxylation and fragmentation of osteocalcin in human serum defined by mass spectrometry. <u>Mol Cell Proteomics. 14 (6): 1546-55.</u> Käkönen, S-M. <i>et al.</i> (2005) Method for prediction of bone fractures by osteocalcin measurements <u>US Patent: US6967081B1</u>
Storage	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.
	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
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
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE				
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>					
Goat Anti Mouse IgG (STAR76)	RPE				
Goat Anti Mouse IgG (STAR70)	FITC				
Rabbit Anti Mouse IgG (STAR13)	HRP				
Goat Anti Mouse IgG (Fc) (STAR120)	<u>FITC, HRP</u>				
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>				
Goat Anti Mouse IgG (STAR77)	HRP				
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,				
	DyLight®650, DyLight®680, DyLight®800,				

FITC, HRP

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL (MCA929)

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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M436939:250304'

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