

Datasheet: MCA5970GA

BATCH NUMBER 280814

Description:	MOUSE ANTI HUMAN OSTEOPROTEGERIN
Specificity:	OSTEOPROTEGERIN
Other names:	TNFRSF11B
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	E01-10F11
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
ELISA	▪			
Western Blotting	▪			1/1000

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 G from ascites
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> derived recombinant protein corresponding to aa 22-201 of human osteoprotegerin

**External Database
Links**

UniProt:

[O00300](#)

[Related reagents](#)

Entrez Gene:

[4982](#)

TNFRSF11B

[Related reagents](#)

Synonyms

OCIF, OPG

Fusion Partners

Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line

Specificity

Mouse anti Human osteoprotegerin, clone E01-10F11, recognizes osteoprotegerin (OPG), a cytokine receptor and member of the tumour necrosis factor (TNF) receptor superfamily. The role of OPG involves it acting as a decoy receptor for the ligand of CD254 and thereby preventing its function in osteoclastogenesis. In addition to this it may act as a decoy receptor for TNF related apoptosis inducing ligand (TRAIL) ([Emery *et al.* 1998](#) and [Schoppet *et al.* 2002](#)). The combination of these two roles allows OPG to inhibit NFkB's regulatory effects on inflammation, skeletal, and vascular systems.

OPG is highly expressed in a wide range of tissues, including adult heart, lung, liver, prostate, ovary and bone marrow. More recently a role for OPG in cardiovascular disease has emerged and it is now clinically relevant biomarker of vascular health ([Bierre, 2013](#)).

Further Reading

1. Emery, J.G. *et al.* (1998) Osteoprotegerin is a receptor for the cytotoxic ligand TRAIL. [J Biol Chem. 273 \(23\): 14363-7.](#)
2. Schoppet, M. *et al.* (2004) Localization of osteoprotegerin, tumor necrosis factor-related apoptosis-inducing ligand, and receptor activator of nuclear factor-kappaB ligand in Mönckeberg's sclerosis and atherosclerosis. [J Clin Endocrinol Metab. 89 \(8\): 4104-12.](#)
3. Bjerre, M. (2013) Osteoprotegerin (OPG) as a biomarker for diabetic cardiovascular complications. [Springerplus. 2: 658.](#)

Storage

Store at +4°C or at -20°C if preferred.

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 #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA5970GA>
10040

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 IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
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
Rabbit Anti Mouse IgG (STAR9...)	FITC

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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
'M368546:200529'

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