

Datasheet: 7060-1515

Description:	RABBIT ANTI HUMAN OSTEOCALCIN
Specificity:	OSTEOCALCIN
Other names:	BONE GLA PROTEIN
Format:	Serum
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.25 ml

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 - Frozen	▪			1/25 - 1/50

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: Dog, Bovine, Monkey

Does not react with: Chicken, Rat, 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

Serum - liquid

Preservative Stabilisers

0.1% Sodium Azide (NaN₃)

Immunogen

Native human osteocalcin.

External Database Links

UniProt:

Entrez Gene:

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

RRID AB_620346

Specificity **Rabbit anti Human osteocalcin antibody** detects human osteocalcin and recognizes an epitope towards the C-terminal of the molecule.

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.

Immunohistology 7060-1515 is suitable for staining cultured human osteoblasts after fixation with 2% formaldehyde and permeabilization.

References

1. Bielby RC *et al.* (2004) *In vitro* differentiation and *in vivo* mineralization of osteogenic cells derived from human embryonic stem cells. [Tissue Eng. 10 \(9-10\): 1518-25.](#)
2. Lopes, M.A. *et al.* (1998) Flow cytometry for assessing biocompatibility. [J Biomed Mater Res. 41 \(4\): 649-56.](#)
3. Kaivosoja, E. *et al.* (2015) The effect of pulsed electromagnetic fields and dehydroepiandrosterone on viability and osteo-induction of human mesenchymal stem cells. [J Tissue Eng Regen Med. 9 \(1\): 31-40.](#)
4. Myllymaa, S. *et al.* (2010) Adhesion, spreading and osteogenic differentiation of mesenchymal stem cells cultured on micropatterned amorphous diamond, titanium, tantalum and chromium coatings on silicon. [J Mater Sci Mater Med. 21 \(1\): 329-41.](#)

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 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10342 available at: 10342: <https://www.bio-rad-antibodies.com/uploads/MSDS/10342.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

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