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BGLAP Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14337c

Product Information

Application	WB, E
Primary Accession	P02818
Other Accession	NP_954642.1
Reactivity	Human
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB30273
Calculated MW	10963
Antigen Region	23-52

Additional Information

Gene ID	632
Other Names	Osteocalcin, Bone Gla protein, BGP, Gamma-carboxyglutamic acid-containing protein, BGLAP
Target/Specificity	This BGLAP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 23-52 amino acids from the Central region of human BGLAP.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	BGLAP Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	BGLAP
Function	The carboxylated form is one of the main organic components of the bone matrix, which constitutes 1-2% of the total bone protein (PubMed:3019668,

PubMed:6967872). Acts as a negative regulator of bone formation and is required to limit bone formation without impairing bone resorption or mineralization (By similarity). Binds strongly to apatite and calcium upon gamma-carboxylation; this modification is essential for bone metabolism (PubMed:6967872, PubMed:39880952).

Cellular Location Secreted.

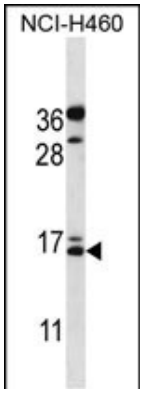
Background

Constitutes 1-2% of the total bone protein. It binds strongly to apatite and calcium.

References

Yeap, B.B., et al. Eur. J. Endocrinol. 163(2):265-272(2010)
Lee, Y.J., et al. Diabetes Care 33 (7), E90 (2010) :
Foresta, C., et al. J. Clin. Endocrinol. Metab. 95(7):3502-3506(2010)
Saleem, U., et al. Arterioscler. Thromb. Vasc. Biol. 30(7):1474-1478(2010)
Das, S.K., et al. Dis. Markers 28(5):281-286(2010)

Images



BGLAP Antibody (Center) (Cat. #AP14337c) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the BGLAP antibody detected the BGLAP protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.