10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

BGLAP Antibody (C-term C80)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14785b

Product Information

Application	WB, E
Primary Accession	P02818
Other Accession	P40147, P02819, P02820, NP_954642.1
Reactivity	Human
Predicted	Bovine, Monkey, Xenopus, Rat, Canine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB04510
Calculated MW	10963
Antigen Region	66-100

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 66-100 amino acids from the C-terminal 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 prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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 (C-term C80) 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.

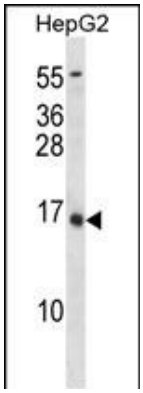
Background

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 (C80) (Cat. #AP14785b) western blot analysis in HepG2 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'.