

Mouse Anti-Osteocalcin antibody

SLM-43106M

Product Name	Osteocalcin
Chinese Name	骨钙素单克隆抗体
Alias	Osteocalcin Propeptide; Gamma-carboxyglutamic acid-containing protein; Bone Gla-protein; BGLAP; Bone gamma carboxyglutamate protein; BGLAP; BGP; Bone gamma carboxyglutamate gla protein osteocalcin; Bone gamma carboxyglutamate protein; Bone Gla protein; Gamma carboxyglutamic acid containing protein; OC; PMF1; OSTCN_HUMAN.
Research Area	immunology
Immunogen Species	Mouse
Clonality	Monoclonal
React Species	Human,
Applications	WB=1:500-2000,IHC-F=1:400-800,IF=1:100-500,IHC-P=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	11kDa
Cellular localization	Secretory protein
Form	Liquid
immunogen	Recombinant human Osteocalcin protein: 24-100/100
Lsotype	IgG
Purification	affinity purified by Protein A
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed



Osteocalcin belongs to the osteocalcin/matrix Gla protein family and constitutes 1 to 2% of the total bone protein. It is a 49 amino acid single chain vitamin K dependent protein, made by osteoblasts, and is a major component of the noncollagenous bone matrix. Post translational modification by a vitamin K dependent carboxylase produces three gamma carboxyglutamic acid residues at positions 17, 21 and 24, giving it a high affinity for calcium. It also binds strongly to apatite.

SWISS:
P02818

Gene ID:
632

Database links:

[Entrez Gene: 281646](#) Cow

[Entrez Gene: 632](#) Human

[Entrez Gene: 397530](#) Pig

[Entrez Gene: 25295](#) Rat

[Omim: 112260](#) Human

[SwissProt: P02820](#) Cow

[SwissProt: P02818](#) Human

[SwissProt: Q8HYY9](#) Pig

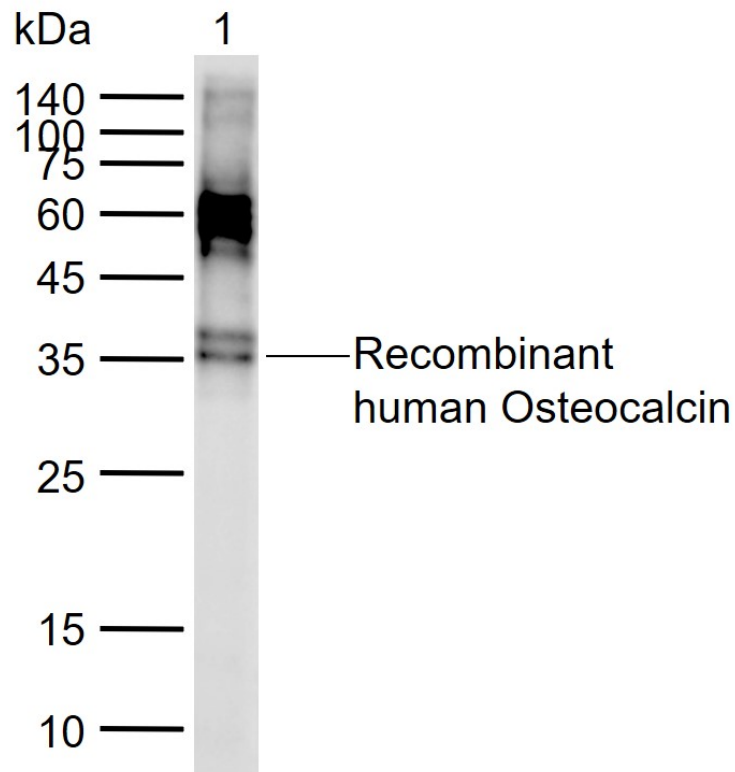
[SwissProt: P04640](#) Rat

[Unigene: 654541](#) Human

[Unigene: 9722](#) Rat

**Product
Detail**

**Product
Picture**



Sample:

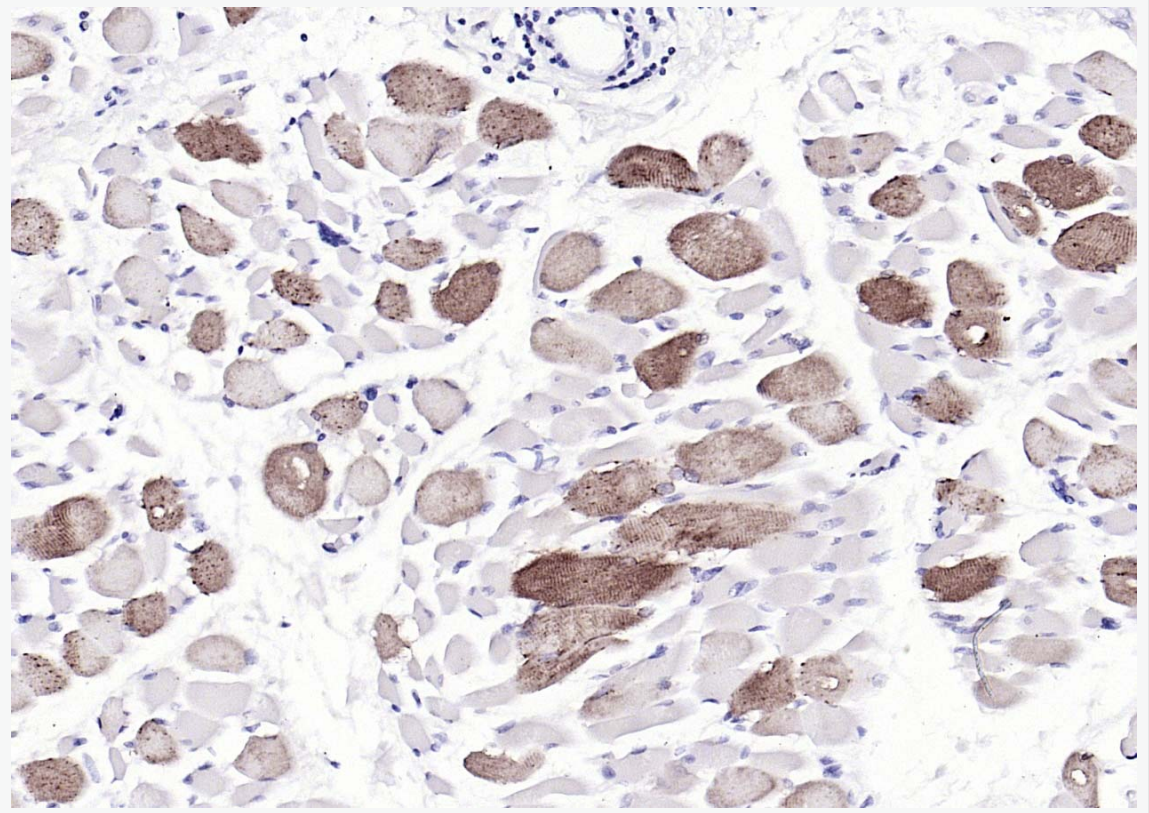
Lane 1: Recombinant human Osteocalcin, C-hFc (HEK293)(SL43106P)

Primary: Anti-Osteocalcin (SLM-43106M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 11 kDa

Observed band size: 35.5 kDa



Paraformaldehyde-fixed, paraffin embedded (human skeletal muscle); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Osteocalcin) Monoclonal Antibody, Unconjugated (SLM-43106M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.