

# Anti-uncarboxylated osteocalcin (ucOC) [Fab-19]

**Catalogue number:** 157723

**Sub-type:** Primary antibody

**Images:**

## Contributor

**Inventor:** Kaisa Ivaska-Papaioannou ; Urpo Lamminmäki

**Institute:** University of Turku

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-uncarboxylated osteocalcin (ucOC) [Fab-19]

**Alternate name:** Uncarboxylated osteocalcin, uc-Osteocalcin, uc-OC, bone gamma-carboxyglutamic acid-containing protein, BGLAP

**Class:** Monoclonal

**Conjugate:** Unconjugated

**Description:** Osteocalcin, also known as bone gamma-carboxyglutamic acid-containing protein (BGLAP), is a small (49-amino-acid) noncollagenous protein hormone found in bone and dentin. Osteocalcin is a bone-specific protein which contains three glutamic acid residues (Glu) that undergo post-translational gamma-carboxylation. Uncarboxylated osteocalcin (ucOC) may participate in the regulation of glucose metabolism, thus measurement of ucOC could be useful in evaluating interactions between bone and glucose ...

**Purpose:** Marker

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:** IgG1 kappa

**Reactivity:** Human

**Selectivity:**

**Host:** Human

**Immunogen:** Human full-length ucOC peptide (149, Glu at positions 17, 21 and 24; C23C29 bridge)

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**  
**Production details:**  
**Formulation:**  
**Recommended controls:**  
**Bacterial resistance:**  
**Selectable markers:**  
**Additional notes:**

## Target details

**Target:** osteocalcin - partially carboxylated with Glu at position 17

**Target alternate names:**

**Target background:** Osteocalcin, also known as bone gamma-carboxyglutamic acid-containing protein (BGLAP), is a small (49-amino-acid) noncollagenous protein hormone found in bone and dentin. Osteocalcin is a bone-specific protein which contains three glutamic acid residues (Glu) that undergo post-translational gamma-carboxylation. Uncarboxylated osteocalcin (ucOC) may participate in the regulation of glucose metabolism, thus measurement of ucOC could be useful in evaluating interactions between bone and glucose ...

**Molecular weight:**

**Ic50:**

## Applications

**Application:** IF ; Fn

**Application notes:**

## Handling

**Format:** Liquid

**Concentration:** 1 mg/ml

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:**

**Storage conditions:** -20° C

**Shipping conditions:** Shipping at 4° C

## Related tools

**Related tools:** Anti-uncarboxylated osteocalcin (ucOC) [Fab-16] recombinant antibody ; Anti-uncarboxylated osteocalcin (ucOC) [Fab-13] recombinant antibody ; Anti-uncarboxylated osteocalcin (ucOC) [Fab-2] recombinant antibody ; Anti-OC [Fab-12] recombinant antibody

## References

**References:** Arponen et al. 2020. Calcif Tissue Int. 107(6):529-542. PMID: 32839842.

CancerTools.org