**Basic Information**

- **Catalog Number:** 23418-1-AP
- **Size:** 28 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Affinity purification
- **Immunogen Catalog Number:** AG20065

**GenBank Accession Number:** BC113432
**GeneID (NCBI):** 632
**Full Name:** bone gamma-carboxyglutamate (gla) protein
**Calculated MW:** 100aa, 11 kDa
**Observed MW:**

**Recommended Dilutions:**
- **IHC:** 1:50-1:500
- **IF:** 1:50-1:500

**Applications**

- **Tested Applications:** IF, IHC, ELISA
- **Cited Applications:** IF, IHC
- **Species Specificity:** human, mouse, rat
- **Cited Species:** human, mouse

**Background Information**

**Notable Publications**

<table>
<thead>
<tr>
<th>Author</th>
<th>PubMed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liyuan Huang</td>
<td>30256390</td>
<td>J Cell Physiol</td>
<td>WB</td>
</tr>
<tr>
<td>Shufan Zhang</td>
<td>26775615</td>
<td>Biochem Biophys Res Commun</td>
<td>IF</td>
</tr>
<tr>
<td>Feng Lian</td>
<td>26500863</td>
<td>Cell Biol Int</td>
<td>WB</td>
</tr>
</tbody>
</table>

**Storage**

- **Store at:** -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20°C storage**

For technical support and original validation data for this product, please contact:

- **Phone:** T 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
- **Email:** proteintech@ptglab.com
- **Website:** ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Selected Validation Data

Immunohistochemistry of paraffin-embedded human osteosarcoma tissue slide using 23418-1-AP (Osteocalcin Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).

Immunohistochemistry of paraffin-embedded human osteosarcoma tissue slide using 23418-1-AP (Osteocalcin Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).

Immunofluorescent analysis of (-20°C Methanol) fixed NIH/3T3 cells using 23418-1-AP (Osteocalcin antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).