



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-OPGbp [AT] Bulk Size Ab03389-23.0-BT

This chimeric rabbit antibody was made using the variable domain sequences of the original Human Fab format for improved compatibility with existing reagents assays and techniques.

**Isotype and Format:** Rabbit IgG, Kappa

**Clone Number:** AT

**Alternative Name(s) of Target:** Osteoprotegerin binding protein; Tumor necrosis factor receptor superfamily member 11B; Osteoclastogenesis inhibitory factor; Osteoprotegerin

**UniProt Accession Number of Target Protein:** O00300

**Published Application(s):** inhibition, SPR, ELISA

**Published Species Reactivity:** Human

**Immunogen:** The original antibody was generated by panning against a human Fab library.

**Specificity:** The antibody recognizes Human OPGbp (residues 143-317). OPGbp acts as decoy receptor for TNFSF11/RANKL and thereby neutralizes its function in osteoclastogenesis. It inhibits the activation of osteoclasts and promotes osteoclast apoptosis in vitro.

**Application Notes:** The specificity of the original format of the antibody was confirmed by ELISA analysis. The binding affinity of the Fab and IgG1 fragments of the antibody to OPGbp was measured by surface plasmon resonance ( $K_d \approx 140$  nM and 0.33-0.43 nM respectively). The interaction of human OPGbp and its receptor ODAR was measured in a fluorescence energy transfer (FRET) assay. The Fab fragment of the antibody inhibited OPGbp binding to soluble ODAR-Fc fusion with an  $IC_{50}$  of 550 nM. Bone Marrow Assay using the Fab fragment of the antibody gave a 50% decrease ( $IC_{50}$ ) at 57.8 nM. In RAW Cell Assay the Fab fragment of the antibody showed an  $IC_{50}$  of 15  $\mu$ g/ml, 300 nM. In RAW Cell Assay, the 3 full length versions of the antibody "AT"405, "AT"406 and "AT"407 showed  $IC_{50}$  of 20.1 nM, 60.3 nM & 21.4 nM, respectively. "AT"405 or "AT"407 were tested in murine bone marrow assay, showing  $IC_{50}$  of 2.15  $\mu$ g/ml (14.4 nM), and 1.85  $\mu$ g/ml (12.5 nM), respectively. "AT"406 was tested in the bone marrow coculture assay and inhibited TRAP formation with an  $IC_{50}$  of 2.35  $\mu$ g/ml (14.4 nM) (US20140147444).

**Antibody First Published in:** [PMID:](#)

**Note on publication:**

## Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:**

Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.