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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-OPGbp [AT] Standard Size Ab03389-1.1

This chimeric mouse 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: Mouse IgG1, 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 µg/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 µg/ml (14.4 nM), and 1.85 µg/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 µg/ml (14.4 nM) (US20140147444).

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

Note on publication:

Product Form

Size: 200 µg Purified antibody.

Purification:

Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. 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.