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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Sclerostin [AbD09097] Standard Size Ab03705-2.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted mouse IgG2a Fc Silent™ antibody, based on the original mouse Fab format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG2a, [Fc Silent™](#), Kappa

Clone Number: AbD09097

Alternative Name(s) of Target: SOST

UniProt Accession Number of Target Protein: Q9BQB4; Q99P68

Published Application(s): neutralize, ELISA

Published Species Reactivity: Human, Mouse

Immunogen: The original antibody was isolated from the HuCAL GOLD library by panning against mouse sclerostin protein biotinylated using EZ-link Sulfo-NHS-LC-Biotin and coupled to streptavidin-coated magnetic beads.

Specificity: This antibody binds mouse sclerostin and cross reacts with human sclerostin and recognizes an epitope adjacent to sclerostin's binding site for the Wnt co-receptor LRP6. Sclerostin is a secreted glycoprotein with a C-terminal cysteine knot-like (CTCK) domain which is produced in osteocytes (type of bone cell). The glycoprotein sclerostin has been identified as a negative regulator of bone growth that acts through inhibition of Wnt signaling and bone formation. Neutralizing anti-sclerostin antibodies are able to restore Wnt activity and enhance bone growth thereby presenting a new osteoanabolic therapy approach for diseases such as osteoporosis.

Application Notes: The binding reactivity of this antibody for mouse sclerostin was tested using ELISA. This antibody binds mouse and human sclerostin with a binding affinity of $K_d = 46\text{nM}$ and $K_d = 260\text{ nM}$ respectively. This antibody efficiently neutralizes sclerostin's Wnt inhibitory activity. In vitro interaction analysis using sclerostin variants revealed that this neutralizing Fab binds to sclerostin's flexible second loop, which has been shown to harbor the LRP5/6 binding motif (PMID: 27558933).

Antibody First Published in: Boschert et al. The sclerostin-neutralizing antibody AbD09097 recognizes an epitope adjacent to sclerostin's binding site for the Wnt co-receptor LRP6. Open Biol. 2016 Aug;6(8):160120. [PMID:27558933](#)

Note on publication: This paper describes the generation of antibodies against human and mouse sclerostin.

Product Form

Size: 100 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.