

SOST Protein, Human (HEK293, His-Avi)

Cat. No.:	HY-P78519
Synonyms:	sclerostin; SOST; VBCHsclerosteosis; CDD; DAND6; SOST1; VBCH
Species:	Human
Source:	HEK293
Accession:	Q9BQB4 (Q24-Y213)
Gene ID:	50964
Molecular Weight:	28-40 kDa

PROPERTIES

Biological Activity	Immobilized Human SOST, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-SOST Antibody, hFc Tag with the EC ₅₀ of 9.7ng/ml determined by ELISA.
Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

SOST protein serves as a potent negative regulator of bone growth by effectively inhibiting Wnt signaling and subsequent bone formation. Through interactions with key components of the Wnt pathway, including LRP4, LRP5, and LRP6, SOST exerts its inhibitory influence. Notably, its interaction with LRP4, mediated via the extracellular domain, facilitates the suppression of Wnt signaling, while interactions with LRP5, specifically through the first two YWTD-EGF repeat domains, contribute to the inhibition of Wnt-mediated signaling. These molecular interactions underscore the crucial role of SOST in modulating the intricate signaling cascades that govern bone development, providing essential regulatory mechanisms to maintain bone homeostasis.

Caution: Product has not been fully validated for medical applications. For research use only.

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