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SOST Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6261c

Product Information

Application	IHC-P, WB, E
Primary Accession	Q9BQB4
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	24031
Antigen Region	134-163

Additional Information

Gene ID	50964
Other Names	Sclerostin, SOST
Target/Specificity	This SOST antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 134-163 amino acids from the Central region of human SOST.
Dilution	IHC-P~~1:100~500 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SOST Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SOST (HGNC:13771)
Function	Negative regulator of bone growth that acts through inhibition of Wnt signaling and bone formation.
Cellular Location	Secreted, extracellular space, extracellular matrix

Tissue Location	Widely expressed at low levels with highest levels in bone, cartilage, kidney, liver, bone marrow and primary osteoblasts differentiated for 21 days. Detected in the subendothelial layer of the aortic intima (at protein level).

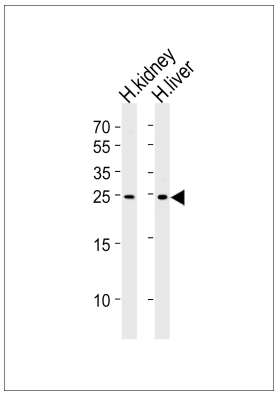
Background

Sclerostin is a secreted glycoprotein with a C-terminal cysteine knot-like (CTCK) domain and sequence similarity to the DAN (differential screening-selected gene aberrative in neuroblastoma) family of bone morphogenetic protein (BMP) antagonists. Loss-of-function mutations in this gene are associated with an autosomal-recessive disorder, sclerosteosis, which causes progressive bone overgrowth. A deletion downstream of the sclerostin gene, which causes reduced sclerostin expression, is associated with a milder form of the disorder called van Buchem disease.

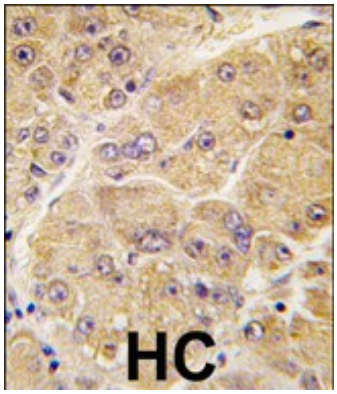
References

Semenov,M.V., J. Biol. Chem. 281 (50), 38276-38284 (2006)
Ellies,D.L., J. Bone Miner. Res. 21 (11), 1738-1749 (2006)
Balemans,W., J Musculoskelet Neuronal Interact 6 (4), 355-356 (2006)
Gardner,J.C., J. Clin. Endocrinol. Metab. 90 (12), 6392-6395 (2005)

Images



Western blot analysis of lysates from human kidney and liver tissue lysates (from left to right),using SOST Antibody (Center)(Cat. #AP6261c). AP6261cwas diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysates at 35ug per lane.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with SOST antibody (Center)(Cat.#AP6261c), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.