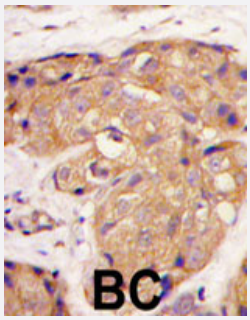
SOST polyclonal antibody

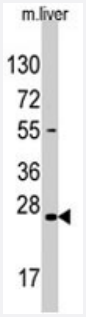
Catalog # PAB4841 Size 200 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with SOST polyclonal antibody (Cat # PAB4841) , 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.



Western Blot (Tissue lysate)

Western blot analysis of SOST polyclonal antibody (Cat # PAB4841) in mouse liver tissue lysate (35 ug/lane). SOST (arrow) was detected using the purified polyclonal antibody (1 : 60 dilution).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of SOST.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human SOST.
Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Purification	Protein A purification

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Recommend Usage	ELISA (1:1000) Western Blot (1:50-100) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with SOST polyclonal antibody (Cat # PAB4841) , 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.

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Tissue lysate)

  Western blot analysis of SOST polyclonal antibody (Cat # PAB4841) in mouse liver tissue lysate (35 ug/lane). SOST (arrow) was detected using the purified polyclonal antibody (1 : 60 dilution).

Gene Info — SOST

Entrez GeneID	50964
Protein Accession#	NP_079513;Q9BQB4
Gene Name	SOST
Gene Alias	VBCH
Gene Description	sclerosteosis
Omim ID	239100 269500 605740
Gene Ontology	Hyperlink

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Gene Summary	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 this gene, which causes reduced sclerostin expression, is associated with a milder form of the disorder called van Buchem disease. [provided by RefSeq
Other Designations	sclerostin

Publication Reference

- Bone density ligand, Sclerostin, directly interacts with LRP5 but not LRP5G171V to modulate Wnt activity.

  Ellies DL, Viviano B, McCarthy J, Rey JP, Itasaki N, Saunders S, Krumlauf R.

  Journal of Bone and Mineral Research: the Official Journal of the American Society for Bone and Mine 2006 Nov; 21(11):1738.

- LRP5 mutations linked to high bone mass diseases cause reduced LRP5 binding and inhibition by SOST.

  Semenov MV, He X.

  The Journal of Biological Chemistry 2006 Dec; 281(50):38276.

- Human genetics of SOST.

  Balemans W, Van Hul W.

  Journal of Musculoskeletal & Neuronal Interactions 2006 Oct; 6(4):355.

Disease

- Fractures
- Genetic Predisposition to Disease
- Hip Fractures
- Obesity
- Osteoarthritis
- Osteoporosis
- Spinal Fractures
- Spinal Injuries

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- Wounds and Injuries

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