

Product Specification Sheet

Sclerostin Antibodies

Cat. # SOST11-P	Human Sclerostin control peptide # 1	SIZE: 100 ug
Cat. # SOST11-A	Rabbit Anti-Human Sclerostin IgG # 1 (aff pure)	SIZE: 100 ug

Sclerostin (213aa in rat and human (chr 17q12) and 211aa in mouse) is a novel secreted osteoclast-derived BMP antagonist with unique ligand specificity; it negatively regulates the formation of bone by repressing the differentiation and/or function of osteoblasts induced by BMPs. Since sclerostin expression is confined to the bone resorbing osteoclast, it provides a mechanism whereby bone apposition is inhibited in the vicinity of resorption. Indicating the role of sclerostin in bone remodeling and links bone resorption and bone apposition. Defects in SOST are the cause of sclerosteosis, a progressive sclerosing bone dysplasia.

Source of Antigen and Antibodies

Antigen	17-aa peptide from Human Sclerostin (1); Designation (SOST11-P, control peptide) ; epitope location ~ C-terminus
Ab Host/type	Rabbit, Polyclonal Aff pure IgG (cat # SOST11-A) purified over antigen-agarose column
2-ab	Goat Anti-rabbit IgG-HRP cat # 20320 (AP, biotin, FITC conjugates also available)
-ve control IgG	# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as –ve control

Form & Storage of Antibodies/Peptide Control

Affinity pure IgG

100 ug/100ul solution lyophilized powder
Supplied in **Buffer:** PBS+0.1% BSA
Reconstitute powder in PBS at 1mg/ml

Control/blocking peptide

100 ug/100 ul solution lyophilized powder
Supplied in Buffer: PBS pH 7.5,
Reconstitute powder in PBS at 1 mg/ml.

Storage

Short-term: unopened, undiluted liquid vials at -20OC and powder at 4oC or -20oC..

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder.

Recommended Usage

Western Blotting (1-10 ug/ml for affinity pure antibody using ECL technique).

ELISA: Control peptide can be used to coat ELISA plates at 1 ug/ml and detected with antibodies (0.5-1 ug/ml for affinity pure).

Histochemistry & Immunofluorescence: Not tested. We recommend the use of aff pure IgG at 2-20 ug/ml.

Specificity & Cross-reactivity

The SOST11-P control peptide is 100% conserved in human, 94% to rat and 88% in mouse Sclerostin. Antibody cross-reactivity in various species has not been studied. Control peptide, because of its low mol. Wt (<3 kDa), is not suitable for Western. It should be used for ELISA or antibody blocking experiments (use 5-10 ug control peptide per 1 ug of aff pure IgG or 1 ul antiserum) to confirm antibody specificity (see detailed protocol at the web site).

General References: Balemans, W. et al (2001) Genet. 10: 537-543; Brunkow, M. E et al (2001) Am. J. Hum. Genet. 68: 577-589; Tacconi, P. et al (1998) Clin. Genet. 53: 497-501.

*This product is for In vitro research use only.

Related material available from ADI

CBFA1, 2 and 3 antibodies,
Noggin and BMP antibodies

SOST11-A-P

71217A