Sclerostin (QP16Z): sc-74269

BACKGROUND

Sclerosteosis (SOST), an autosomal recessive sclerosing bone dysplasia, and Van Buchem disease, a closely related disorder, cause massive bone overgrowth. SOST is associated with mutations in the SOST gene and leads to gigantism, entrapment of the seventh and eighth cranial nerves and possibly also distortion of the facies. Van Buchem disease is associated with a 52 kb deletion downstream of the SOST gene that probably affects transcription of the gene. Sclerostin, the protein encoded by the SOST gene, is important for bone homeostasis. It is a secreted protein that inhibits bone formation. Sclerostin is generally expressed at low levels, but high expression of Sclerostin can be detected in bone, cartilage, liver, bone marrow and kidney tissue.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: SOST (human) mapping to 17q11.2; Sost (mouse) mapping to 11 D.

SOURCE

Sclerostin (QP16Z) is a mouse monoclonal antibody raised against full length recombinant Sclerostin of human origin.

PRODUCT

Each vial contains 100 µg IgG2b in 1.0 ml of PBS with < 0.1% sodium azide and protein stabilizer.

APPLICATIONS

Sclerostin (QP16Z) is recommended for detection of Sclerostin of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Sclerostin siRNA (h): sc-61503.

Molecular Weight of Sclerostin: 23 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.