Anti-Sclerostin antibody ab264040

Overview

Product name: Anti-Sclerostin antibody
Description: Rabbit polyclonal to Sclerostin
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-P
Species reactivity: Reacts with: Mouse, Human
Immunogen: Synthetic peptide corresponding to Human Sclerostin (internal sequence) conjugated to keyhole limpet haemocyanin. Within amino acids 141-171
Database link: Q9BQB4
Positive control: WB: Mouse lung lysate. IHC-P: Human hepatocarcinoma tissue.

Properties

Form: Liquid
Storage buffer: pH: 7.20
Preservative: 0.09% Sodium azide
Constituent: PBS
Purity: Protein A purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab264040 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<td>WB</td>
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<td>1/50 - 1/100. Predicted molecular weight: 24 kDa.</td>
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**Function**
Negative regulator of bone growth.

**Tissue specificity**
Widely expressed at low levels with highest levels in bone, cartilage, kidney, liver, bone marrow and primary osteoblasts differentiated for 21 days.

**Involvement in disease**
Defects in SOST are the cause of sclerosteosis (SOST) [MIM:269500]; also known as cortical hyperostosis with syndactyly. SOST is an autosomal recessive sclerosing bone dysplasia characterized by a generalized hyperostosis and sclerosis leading to a markedly thickened skull, with mandible, ribs, clavicles and all long bones also being affected. Due to narrowing of the foramina of the cranial nerves, facial nerve palsy, hearing loss and atrophy of the optic nerves can occur. Sclerosteosis is clinically and radiologically very similar to van Buchem disease, mainly differentiated by hand malformations and a large stature in sclerosteosis patients.

Note=A 52 kb deletion downstream of SOST results in SOST transcription suppression and is a cause of van Buchem disease (VBCH) [MIM:239100]; also known as hyperostosis corticalis generalisata. VBCH is an autosomal recessive sclerosing bone dysplasia characterized by endosteal hyperostosis of the mandible, skull, ribs, clavicles, and diaphyses of the long bones. Affected patients present a symmetrically increased thickness of bones, most frequently found as an enlarged jawbone, but also an enlargement of the skull, ribs, diaphysis of long bones, as well as tubular bones of hands and feet. The clinical consequence of increased thickness of the skull include facial nerve palsy causing hearing loss, visual problems, neurological pain, and, very rarely, blindness as a consequence of optic atrophy. Serum alkaline phosphatase levels are elevated.

**Sequence similarities**
Belongs to the sclerostin family.
Contains 1 CTCK (C-terminal cystine knot-like) domain.

**Cellular localization**
Secreted.

**Images**
Formalin-fixed, paraffin-embedded human hepatocellular carcinoma tissue stained for Sclerostin using ab264040 at 1/10 dilution in immunohistochemical analysis. HRP-conjugated secondary antibody. DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sclerostin antibody (ab264040)
Western blot - Anti-Sclerostin antibody (ab264040) at 1/50 dilution + Mouse lung lysate at 35 µg

Predicted band size: 24 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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