

Anti-FRZB Picoband Antibody

Catalog # ABO12063

Product Information

Application	WB, E
Primary Accession	Q92765
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Secreted frizzled-related protein 3(FRZB) detection. Tested with WB, ELISA in Human.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	2487
Other Names	Secreted frizzled-related protein 3, sFRP-3, Frezzled, Fritz, Frizzled-related protein 1, FrzB-1, FRZB, FIZ, FRE, FRP, FRZB1, SFRP3
Calculated MW	36254
Application Details	Western blot, 0.1-0.5 μ g/ml, Human, - ELISA , 0.1-0.5 μ g/ml, Human
Subcellular Localization	Secreted .
Tissue Specificity	Expressed primarily in the cartilaginous cores of the long bone during embryonic and fetal development and in the appendicular skeleton (6-13 weeks). At 13 weeks of gestation, transcripts were present in early chondroblasts of the tarsal bones of the foot, the carpal bones of the hands and the epiphysis of long bones. Highly expressed in placenta and heart, followed by brain, skeletal muscle, kidney and pancreas. Weakly expressed in lung and liver.
Source	Eukaryota
Protein Name	Secreted frizzled-related protein 3
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E.coli-derived human FRZB recombinant protein (Position: E176-N325). Human FRZB shares 90% amino acid (aa) sequence identity with mouse FRZB.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the secreted frizzled-related protein (sFRP) family.

Protein Information

Name	FRZB
Synonyms	FIZ, FRE, FRP, FRZB1, SFRP3
Function	Soluble frizzled-related proteins (sFRPS) function as modulators of Wnt signaling through direct interaction with Wnts. They have a role in regulating cell growth and differentiation in specific cell types. SFRP3/FRZB appears to be involved in limb skeletogenesis. Antagonist of Wnt8 signaling. Regulates chondrocyte maturation and long bone development.
Cellular Location	Secreted.
Tissue Location	Expressed primarily in the cartilaginous cores of the long bone during embryonic and fetal development and in the appendicular skeleton (6-13 weeks). At 13 weeks of gestation, transcripts were present in early chondroblasts of the tarsal bones of the foot, the carpal bones of the hands and the epiphysis of long bones. Highly expressed in placenta and heart, followed by brain, skeletal muscle, kidney and pancreas. Weakly expressed in lung and liver

Background

FRZB is also known as FRE or OS1. The protein encoded by this gene is a secreted protein that is involved in the regulation of bone development. Defects in this gene are a cause of female-specific osteoarthritis (OA) susceptibility. FRZB is a Wnt-binding protein especially important in embryonic development. It is a competitor for the cell-surface G-protein receptor Frizzled. FRZB is localized in the extracellular plasma membrane. Unlike frizzled, frzb lacks the 7 transmembrane domains normally found in G-protein-coupled receptors. It is still considered a homolog of frizzled because it contains a Cysteine Rich Domain (CRD), and because of its intracellular C-terminus which is crucial for signaling.

Images



Anti- FRZB Picoband antibody, ABO12063, Western blotting
 All lanes: Anti FRZB (ABO12063) at 0.5ug/ml
 Lane 1: PANC Whole Cell Lysate at 40ug
 Lane 2: U87 Whole Cell Lysate at 40ug
 Predicted bind size: 36KD
 Observed bind size: 36KD

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