

Datasheet for ABIN3042406
anti-FRZB antibody (AA 176-325)



[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	FRZB
Binding Specificity:	AA 176-325
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FRZB antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-FRZB Antibody Picoband®
Immunogen:	E.coli-derived human FRZB recombinant protein (Position: E176-N325). Human FRZB shares 90% amino acid (aa) sequence identity with mouse FRZB.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-FRZB Antibody Picoband® (ABIN3042406). Tested in ELISA, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	FRZB
Alternative Name:	FRZB (FRZB Products)
Background:	Synonyms: Secreted frizzled-related protein 3,sFRP-3,Frezzed,Fritz,Frizzled-related protein 1,FrzB-1,FRZB,FIZ, FRE, FRP, FRZB1, SFRP3, 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. 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. Sequence Similarities: Belongs to the secreted frizzled-related protein (sFRP) family.
Molecular Weight:	36 kDa
Gene ID:	2487
UniProt:	Q92765
Pathways:	WNT Signaling , Positive Regulation of fat Cell Differentiation

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human, - ELISA, 0.1-0.5 µg/mL, - 1. Baker-Lepain JC, et al. Variant alleles of the Wnt antagonist FRZB are determinants of hip shape and modify the relationship between hip shape and osteoarthritis. Arthritis Rheum, 2012 May. 2. Qin S, et al. FRZB knockdown upregulates β-catenin activity and enhances cell aggressiveness in gastric cancer. Oncol Rep, 2014 May. 3. Wasmann RA, et al. Novel membrane frizzled-related protein gene mutation as cause of posterior microphthalmia resulting in high hyperopia with macular folds. Acta Ophthalmol, 2014 May.
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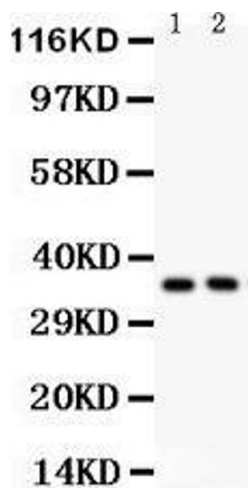
Application Details

Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. Anti- FRZB Picoband antibody, Western blotting All lanes: Anti FRZB 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