

## Anti-DKK1 Antibody Picoband®

Catalog Number: A00632

### About DKK1

DKK1, Dickkopf-related protein 1, is a protein that in humans is encoded by the DKK1 gene. This gene encodes a protein that is a member of the dickkopf family. By genomic sequence analysis, determined that the DKK1 gene contains 4 exons. The DKK1 gene is mapped to 10q11.2 using FISH. It is a secreted protein with two cysteine rich regions and is involved in embryonic development through its inhibition of the WNT signaling pathway. Elevated levels of DKK1 in bone marrow plasma and peripheral blood is associated with the presence of osteolytic bone lesions in patients with multiple myeloma.

### Overview

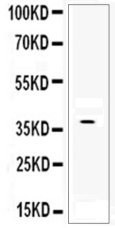
Product Name	Anti-DKK1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-DKK1 Antibody Picoband® catalog # A00632. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .
Storage Instructions	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.
Host	Rabbit
Uniprot ID	O94907

### Technical Details

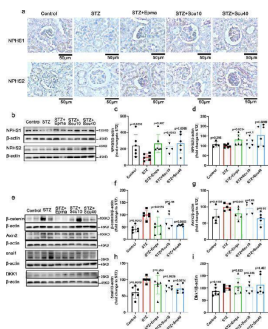
Immunogen	E. coli-derived human DKK1 recombinant protein (Position: T32-H266).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml

## Anti-DKK1 Antibody Picoband® (A00632) Images



Western blot analysis of DKK1 using anti-DKK1 antibody (A00632). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: recombinant human DKK1 protein 1ng. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-DKK1 antigen affinity purified polyclonal antibody (Catalog # A00632) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for DKK1 at approximately 38KD. The expected band size for DKK1 is at 26KD.



Scutellarin Restored Podocyte Injury of the DN Mice. a Representative images of immunohistochemistry for NPHS1 and NPHS2 of the mice treated with vehicle, scutellarin or empagliflozin ( $\times 200$ ; scale bar = 50  $\mu\text{m}$ ). b Representative images of Western-blotting for NPHS1, NPHS2. c Quantitative plot of the expression of NPHS1 of the mice. d Quantification of NPHS1 expression of the mice. e Representative images of Western-blotting for beta-catenin, Axin2, snail and DKK1 of the mice. f - i Quantifications of the protein levels for beta-catenin, Axin2, snail and DKK1 from E. All data are presented as the mean  $\pm$  S.D.; n = 4-6 for each group, "n" stands for the number of animals; p vs. the model group (STZ) Index in PubMed under a CC BY license. PMID: 38656633

## 1 Publications Citing This Product

1. PubMed ID: 30295351, Clusterin contributes to early stage of Alzheimer's disease pathogenesis

Visit [bosterbio.com/anti-dkk1-picoband-trade-antibody-a00632-boster.html](http://bosterbio.com/anti-dkk1-picoband-trade-antibody-a00632-boster.html) to see all 1 publications.

## Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-DKK1 Antibody

For Research Use Only. Not for use in diagnostic procedures.