

Anti-TXNRD2 Antibody Picoband®

Catalog Number: PA1903

About TXNRD2

TXNRD2 (Thioredoxin reductase 2), also known as TRXR2, TR3, SELZ, or TR-BETA, Thioredoxin reductases, are selenocysteine (sec)-containing flavoenzymes that maintain thioredoxins, small proteins that catalyze redox reactions, in the reduced state using the reducing power of NADPH. By STS analysis and genomic sequence analysis, respectively, Miranda-Vizuete et al. (1999) and Sun et al. (1999) mapped the TXNRD2 gene to chromosome 22q11.2. Miranda-Vizuete et al. (1999) mapped the mouse gene to chromosome 16. Gasdaska et al. (1999) showed that TXNRD2 was a thioredoxin reductase that could directly reduce proteins such as insulin.

Overview

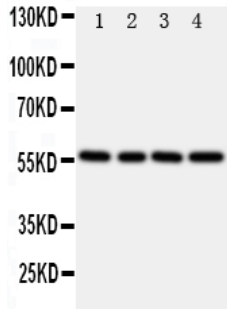
Product Name	Anti-TXNRD2 Antibody Picoband®
Reactive Species	Human, Rat
Description	Boster Bio Anti-TXNRD2 Antibody catalog # PA1903. Tested in IHC, WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	Q9NNW7

Technical Details

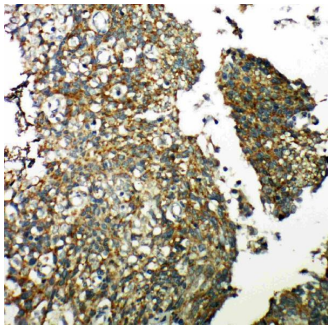
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human TXNRD2, different from the related rat sequence by three amino acids, and from the related mouse sequence by two amino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).

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	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Rat Western blot, 0.1-0.5ug/ml, Human, Rat

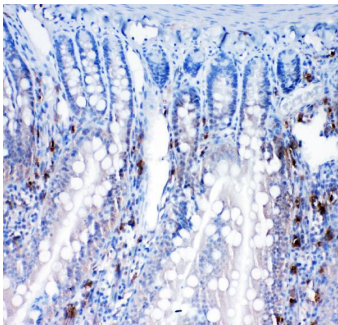
Anti-TXNRD2 Antibody Picoband® (PA1903) Images



Anti-TXNRD2 antibody, PA1903, Western blotting
Lane 1: Rat Kidney Tissue Lysate
Lane 2: Rat Ovary Tissue Lysate
Lane 3: Rat Liver Tissue Lysate
Lane 4: SMMC Cell Lysate



Anti-TXNRD2 antibody, PA1903, IHC(P)
IHC(P): Human Lung Cancer Tissue



IHC analysis of TXNRD2 using anti-TXNRD2 antibody (PA1903). TXNRD2 was detected in paraffin-embedded section of rat intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-TXNRD2 Antibody (PA1903) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

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Anti-TXNRD2 Antibody

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