

Anti-Glutaredoxin 2/GLRX2 Antibody Picoband®

Catalog Number: PA1885

About GLRX2

GLRX2 (Glutaredoxin-2) also known as Glutaredoxin-2, mitochondrial or GRX2, is a protein that in humans is encoded by the GLRX2 gene. Glutaredoxins (e.g., GLRX) are a family of glutathione-dependent hydrogen donors that participate in a variety of cellular redox reactions. By sequence analysis, Lundberg et al. (2001) and Gladyshev et al. (2001) identified the GLRX2 gene within a clone mapping to chromosome 1q31.2-q31.3. Lundberg et al. (2001) determined that the GLRX2 gene contains 5 exons spanning about 9.6 kb. The GLRX2B transcript uses a first exon (exon 1B) located upstream from the first exon used by the GLRX2A transcript (exon 1A), suggesting that alternative splicing generates the isoforms. Lundberg et al. (2001) assayed reductase activity in recombinant proteins of both GLRX2 isoforms. They found that both have GSH-dependent dehydroascorbate reductase activity and 2-hydroxyethyl disulfide reductase activity.

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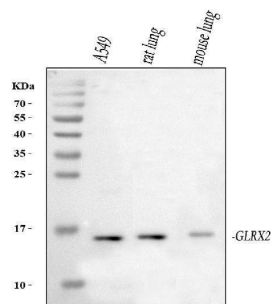
Overview

Product Name	Anti-Glutaredoxin 2/GLRX2 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Glutaredoxin 2/GLRX2 Antibody catalog # PA1885. Tested in IHC, 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	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, 0.01mg 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	Q9NS18

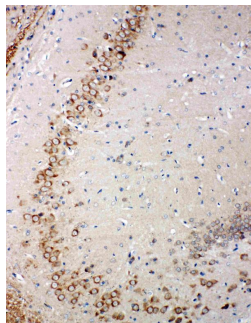
Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Glutaredoxin 2, different from the related rat sequence by two amino acids, and from the related mouse sequence by one amino acid.
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	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Rat

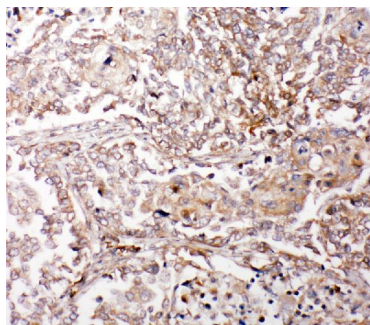
Anti-Glutaredoxin 2/GLRX2 Antibody Picoband® (PA1885) Images



Western blot analysis of GLRX2 using anti-GLRX2 antibody (PA1885). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human A549 whole cell lysates, Lane 2: rat lung tissue lysates, Lane 3: mouse lung tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-GLRX2 antigen affinity purified polyclonal antibody (Catalog # PA1885) 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 1:5000 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 GLRX2 at approximately 18 kDa. The expected band size for GLRX2 is at 18 kDa.

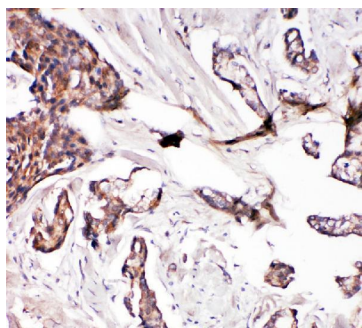


IHC analysis of Glutaredoxin 2 using anti-Glutaredoxin 2 antibody (PA1885). Glutaredoxin 2 was detected in paraffin-embedded section of Rat Brain tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Glutaredoxin 2 Antibody (PA1885) 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.



IHC analysis of Glutaredoxin 2 using anti-Glutaredoxin 2 antibody (PA1885). Glutaredoxin 2 was detected in paraffin-embedded section of human lung cancer 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-Glutaredoxin 2 Antibody (PA1885) 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.

IHC analysis of Glutaredoxin 2 using anti-Glutaredoxin 2 antibody (PA1885). Glutaredoxin 2 was detected in paraffin-embedded section of human mammary cancer 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-Glutaredoxin 2 Antibody (PA1885) 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.

1 Publications Citing This Product

1. PubMed ID: 10.1016/j.envint.2020.105654, Enhanced expression of nicotinamide nucleotide transhydrogenase (NNT) and its role in a human T cell line continuously exposed to asbestos

Visit bosterbio.com/anti-glutaredoxin-2-antibody-pa1885-boster.html to see all 1 publications.

Anti-Glutaredoxin 2/GLRX2 Antibody

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