

## Anti-GLRX3 Antibody Picoband®

Catalog Number: A06489

### About GLRX3

Glutaredoxin-3 is a protein that in humans is encoded by the GLRX3 gene. This gene encodes a member of the glutaredoxin family. Glutaredoxins are oxidoreductase enzymes that reduce a variety of substrates using glutathione as a cofactor. The encoded protein binds to and modulates the function of protein kinase C theta. The encoded protein may also inhibit apoptosis and play a role in cellular growth, and the expression of this gene may be a marker for cancer. Pseudogenes of this gene are located on the short arm of chromosomes 6 and 9. Alternatively spliced transcript variants have been observed for this gene.

### Overview

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-GLRX3 Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                                    |
| Reactive Species     | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                                                |
| Description          | Boster Bio Anti-GLRX3 Antibody Picoband® catalog # A06489. Tested in WB, FCM, ELISA 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          | ELISA, Flow Cytometry, WB                                                                                                                                                                                                                                                                                                                                                                                                        |
| Clonality            | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Formulation          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.                                                                                                                                                                                                                                                                                                                                                                  |
| Storage Instructions | 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 freezing and thawing.                                                                                                                                                                                                                                |
| Host                 | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Uniprot ID           | O76003                                                                                                                                                                                                                                                                                                                                                                                                                           |

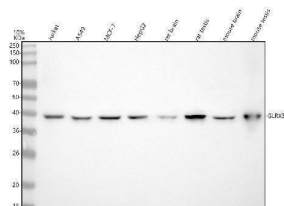
### Technical Details

|                               |                                                                                                                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen                     | E.coli-derived human GLRX3 recombinant protein (Position: K31-V307). Human GLRX3 shares 94.6% and 94.9% amino acid (aa) sequence identity with mouse and rat GLRX3, respectively. |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.                                                                                   |
| Form                          | Lyophilized                                                                                                                                                                       |
| Concentration                 | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                                                                                         |
| Purification                  | Immunogen affinity purified.                                                                                                                                                      |

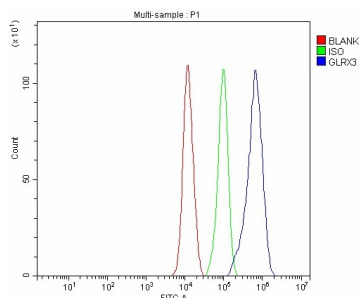
Suggested Dilutions

Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat  
Flow Cytometry (Fixed), 1-3 ug/ $1 \times 10^6$  cells, Human  
ELISA, 0.1-0.5 ug/ml, -

## Anti-GLRX3 Antibody Picoband® (A06489) Images



Western blot analysis of GLRX3 using anti-GLRX3 antibody (A06489). 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 Jurkat whole cell lysates, Lane 2: human A549 whole cell lysates, Lane 3: human MCF-7 whole cell lysates, Lane 4: human HepG2 whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: rat testis tissue lysates, Lane 7: mouse brain tissue lysates, Lane 8: mouse testis 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-GLRX3 antigen affinity purified polyclonal antibody (Catalog # A06489) 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 GLRX3 at approximately 40 kDa. The expected band size for GLRX3 is at 37 kDa.



Flow Cytometry analysis of JK cells using anti-GLRX3 antibody (A06489). Overlay histogram showing JK cells stained with A06489 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GLRX3 Antibody (A06489, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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Anti-GLRX3 Antibody

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