BOSTER BIOLOGICAL TECHNOLOGY
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# Anti-GRB10 Antibody Picoband® (monoclonal, 5H7)

**Catalog Number:** M01663

## About GRB10

GRB10, Growth factor receptor-bound protein 10, also known as insulin receptor-binding protein Grb-IR is a protein that in humans is encoded by the GRB10 gene. The product of this gene belongs to a small family of adapter proteins that are known to interact with a number of receptor tyrosine kinases and signaling molecules. This gene encodes a growth factor receptor-binding protein that interacts with insulin receptors and insulin-like growth-factor receptors (e.g., IGF1R and IGF2R). Overexpression of some isoforms of the encoded protein inhibits tyrosine kinase activity and results in growth suppression. This gene is imprinted in a highly isoform- and tissue-specific manner. Alternatively spliced transcript variants encoding different isoforms have been identified.

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## Overview

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|---|---|
| Product Name | Anti-GRB10 Antibody Picoband® (monoclonal, 5H7) |
| Reactive Species | Human, Monkey, Rat |
| Description | Boster Bio Anti-GRB10 Antibody Picoband® (monoclonal, 5H7) catalog # M01663. Tested in Flow Cytometry, WB applications. This antibody reacts with Human, Monkey, 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 | Flow Cytometry, WB |
| Clonality | Monoclonal 5H7 |
| Formulation | Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4. |
| 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 | Mouse |
| Uniprot ID | Q13322 |

## Technical Details

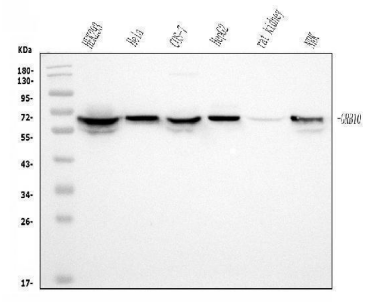
| | |
|---|---|
| Immunogen | E.coli-derived human GRB10 recombinant protein (Position: M1-K251). |

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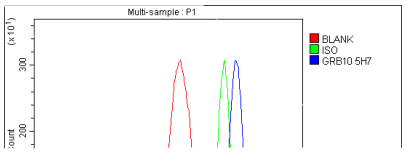
| | |
|---|---|
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot. |
| Cross Reactivity | No cross-reactivity with other proteins. |
| Isotype | Mouse IgG1 |
| Form | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| Purification | Immunogen affinity purified. |
| Suggested Dilutions | Western blot, 0.25-0.5ug/ml, Human, Monkey, Rat<br>Flow Cytometry (Fixed), 1-3ug/1x$10^6$ cells, Human<br><br>Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells. |

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# Anti-GRB10 Antibody Picoband® (monoclonal, 5H7) (M01663) Images




Western blot analysis of GRB10 using anti-GRB10 antibody (M01663). 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 30ug of sample under reducing conditions. Lane 1: human Hek293 whole cell lysates, Lane 2: human Hela whole cell lysates, Lane 3: monkey COS-7 whole cell lysates, Lane 4: human HepG2 whole cell lysates, Lane 5: rat kidney tissue lysates, Lane 6: rat NRK whole cell lysates. 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 mouse anti-GRB10 antigen affinity purified monoclonal antibody (Catalog # M01663) 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-mouse 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 # EK1001) with Tanon 5200 system. A specific band was detected for GRB10 at approximately 67KD. The expected band size for GRB10 is at 67KD.




Flow Cytometry analysis of THP-1 cells using anti-GRB10 antibody (M01663). Overlay histogram showing THP-1 cells stained with M01663 (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 mouse anti- GRB10 Antibody (M01663, 1ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1ug/1x106) 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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