BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Guanylate-binding protein 1 GBP1 Antibody Picoband®

Catalog Number: PA1550

About GBP1

Interferons induce a large number of genes in their target cells, including those coding for guanylate-binding proteins (GBPs). GBPs, such as GBP1, are characterized by their ability to specifically bind guanine nucleotides (GMP, GDP, and GTP) and are distinguished from the GTP-binding proteins by the presence of 2 binding motifs rather than 3. The 593-amino acid GBP1 protein shares 77% and 88% identity with GBP2 and GBP3, respectively. All GBPs, including GBP1, have a conserved N-terminal globular GTP-binding domain containing 2 consensus sequences and a third T (L/V)RD sequence not found in other GTPases. The GBP1 gene to the GBP gene cluster on chromosome 1p22.2. It is located telomeric to GBP2 and centromeric to GBP3. High expression of GBP1, GBP2, and GBP3 are in endothelial cells after stimulation with IFNG, TNF, or IL1B .

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Overview

Product Name	Anti-Guanylate-binding protein 1 GBP1 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Guanylate-binding protein 1 GBP1 Antibody catalog # PA1550. Tested in WB applications. This antibody reacts with Human. 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 antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *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	P32455

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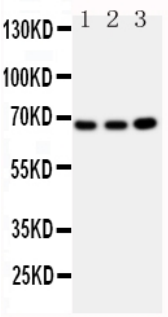
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Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human GBP1.
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, Human

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Anti-Guanylate-binding protein 1 GBP1 Antibody Picoband® (PA1550) Images



Anti-GBP1 antibody, PA1550, Western blottingAll lanes: Anti GBP1 (PA1550) at 0.5ug/ml Lane 1: U87 Whole Cell Lysate at 40ug Lane 2: HELA Whole Cell Lysate at 40ug Lane 3: MCF-7 Whole Cell Lysate at 40ug Predicted bind size: 68KD Observed bind size: 68KD

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