

Anti-Cytoglobin/CYGB Antibody Picoband®

Catalog Number: PA1657

About CYGB

Cytoglobin (CYGB), also called HGB or STAP, is a ubiquitously expressed hexacoordinate hemoglobin that may facilitate diffusion of oxygen through tissues, scavenge nitric oxide or other reactive oxygen species, or serve a protective function during oxidative stress. The cytoglobin gene is mapped on 17q25.1. The CYGB gene contains 4 exons and spans about 9 kb. Cytoglobin has many elements common to vertebrate globins, including invariant histidine residues, and the amino acids that form the heme pocket share similarity with pentacoordinate myoglobin. In contrast to the high oxygen affinities displayed by most hexacoordinate hemoglobins, the characteristics of CYGB indicate that it can facilitate oxygen transport. Because the oxygen affinity of CYGB is more similar to myoglobin than to neuroglobin, and the oxy form of CYGB resists autooxidation, CYGB is proposed to represent a tissue oxygen reservoir by Sawai et al.

Overview

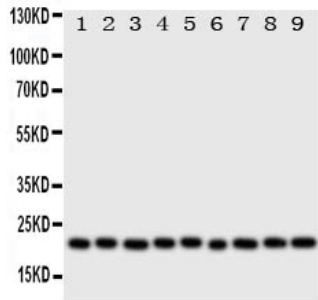
Product Name	Anti-Cytoglobin/CYGB Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Cytoglobin/CYGB Antibody catalog # PA1657. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees 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	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	Q8WWM9

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Cytoglobin, identical to the related rat sequence, different 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.
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, Rat, Mouse

Anti-Cytoglobin/CYGB Antibody Picoband® (PA1657) Images



Anti-Cytoglobin antibody, PA1657, Western blotting All lanes:
Anti Cytoglobin (PA1657) at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 50ug Lane 2: Rat Small Intestine Tissue Lysate at 50ug Lane 3: Rat Liver Tissue Lysate at 50ug Lane 4: Rat Kidney Tissue Lysate at 50ug Lane 5: SGC Whole Cell Lysate at 40ug Lane 6: COLO320 Whole Cell Lysate at 40ug Lane 7: SMMC Whole Cell Lysate at 40ug Lane 8: PANC Whole Cell Lysate at 40ug Lane 9: HELA Whole Cell Lysate at 40ug Predicted bind size: 21KD Observed bind size: 21KD

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-Cytoglobin/CYGB Antibody

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