

## Anti-Cytoglobin/CYGB Antibody Picoband® HRP Conjugated

Catalog Number: A01197-HRP

### 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.

### Overview

|                      |   |
|----------------------|---|
| Product Name         | Anti-Cytoglobin/CYGB Antibody Picoband® HRP Conjugated                              |
| Reactive Species     | Human, Mouse, Rat   |
| Clonality            | Polyclonal  |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> . |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing.    |
| Host                 | Rabbit  |
| Uniprot ID           | Q8WWM9  |

### Technical Details

|                     |   |
|---------------------|---|
| Immunogen           | E.coli-derived human Cytoglobin recombinant protein (Position: M1-P190). Human Cytoglobin shares 95.3% and 93.7% amino acid (aa) sequence identity with mouse and rat Cytoglobin, respectively. |
| Cross Reactivity    | No cross-reactivity with other proteins   |
| Isotype             | Rabbit IgG  |
| Form                | Liquid  |
| Concentration       | 0.5 mg/mL   |
| Purification        | Immunogen affinity purified.  |
| Conjugate           | HRP   |
| Suggested Dilutions | The intended application should be selected according to the customer's experimental  |

requirements.

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