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Datasheet for ABIN3030693
anti-CYGB antibody (N-Term)

2 Images

Overview

Quantity:	100 µg
Target:	CYGB
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CYGB antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	An amino acid sequence from the N-terminus of human Cytoglobin (FVNFPSAKQYFSQFKHMED) was used as the immunogen for this Cytoglobin antibody (100% rat homology).
Isotype:	IgG
Purification:	Antigen affinity

Target Details

Target:	CYGB
Alternative Name:	Cytoglobin (CYGB Products)
Background:	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

Target Details

other reactive oxygen species, or serve a protective function during oxidative stress. The CYGB gene contains four exons and spans about 9 kb. Cytooglobin 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.

UniProt: [Q8WWM9](#)

Application Details

Application Notes: The stated application concentrations are suggested starting amounts. Titration of the Cytooglobin antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 0.5-1 µg/mL

Restrictions: For Research Use only

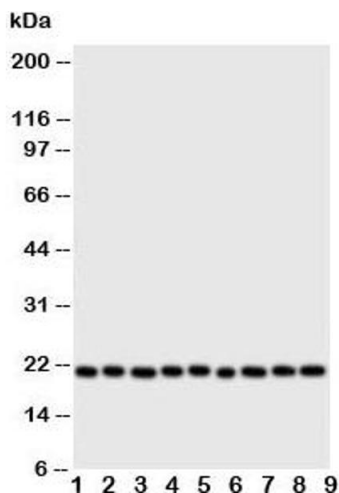
Handling

Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

Storage: -20 °C

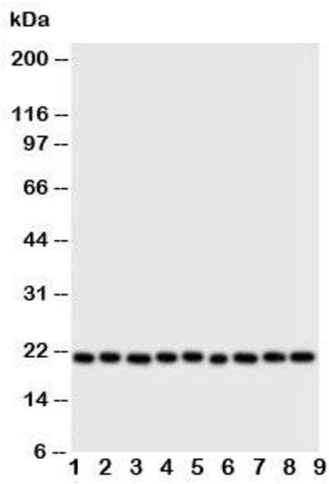
Storage Comment: After reconstitution, the Cytooglobin antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

Images



Western Blotting

Image 1. Western blot testing of Cytooglobin antibody and
Lane 1: rat brain; 2: (r) small intestine; 3: (r) liver; 4: (r) kidney;
5: human SGC; 6: (h) COLO320; 7: SMMC-7721; 8: PANC; 9:
HeLa cell lysate. Observed size: 21~27KD



Western Blotting

Image 2. Western blot testing of Cytoglobin antibody and
Lane 1: rat brain