

Datasheet for ABIN3043127
anti-CYGB antibody (N-Term)



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1 Image

Overview

Quantity:	100 µg
Target:	CYGB
Binding Specificity:	AA 50-68, N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CYGB antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-Cytoglobin/CYGB Antibody Picoband®
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.
Sequence:	FVNFPSAKQY FSQFKHMED
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Cytoglobin/CYGB Antibody (ABIN3043127). 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,

Product Details

ensuring unmatched performance.

Purification: Immunogen affinity purified.

Target Details

Target: CYGB

Alternative Name: CYGB (CYGB Products)

Background: Synonyms: Cytoglobin,Histoglobin,HGb,Stellate cell activation-associated protein,CYGB,STAP,
Tissue Specificity: Ubiquitously expressed. Highest expression in heart, stomach, bladder and small intestine. .

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 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.

Sequence Similarities: Belongs to the APP family.

Molecular Weight: 21 kDa

Application Details

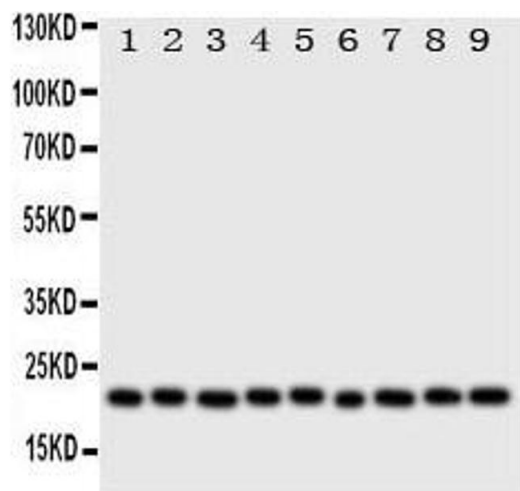
Application Notes: Western blot, 0.1-0.5 µg/mL, Human, Rat, Mouse
1. Asahina, K., Kawada, N., Kristensen, D. B., Nakatani, K., Seki, S., Shiokawa, M., Tateno, C., Obara, M., Yoshizato, K. Characterization of human stellate cell activation-associated protein and its expression in human liver. Biochim. Biophys. Acta 1577: 471-475, 2002. 2. Burmester, T., Ebner, B., Weich, B., Hankeln, T. Cytoglobin: a novel globin type ubiquitously expressed in vertebrate tissues. Molec. Biol. Evol. 19: 416-421, 2002. 3. Geuens, E., Brouns, I., Flamez, D., Dewilde, S., Timmermans, J.-P., Moens, L. A globin in the nucleus! J. Biol. Chem. 278: 30417-30420, 2003.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months

Images



Western Blotting

Image 1.