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CYGB Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant CYGB.
Catalog # AT1698a

Specification

CYGB Antibody (monoclonal) (M01) - Product Information

Application	**IF**
Primary Accession	Q8WWM9
Other Accession	BC029798
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a kappa**
Calculated MW	**21405**

CYGB Antibody (monoclonal) (M01) - Additional Information

Gene ID 114757

Other Names
Cytoglobin, Histoglobin, HGb, Stellate cell activation-associated protein, CYGB, STAP

Target/Specificity
CYGB (AAH29798, 1 a.a. ~ 190 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
CYGB Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

CYGB Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety

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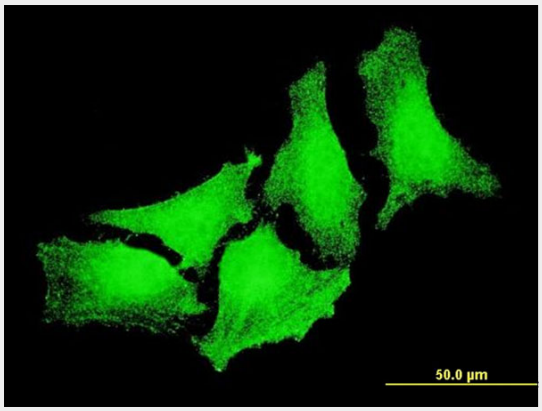
- Cell Culture

CYGB Antibody (monoclonal) (M01) - Images



Immunofluorescence of monoclonal antibody to CYGB on HeLa cell . [antibody concentration 10 ug/ml]

CYGB Antibody (monoclonal) (M01) - Background

Cytoglobin 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 (Trent and Hargrove, 2002 [PubMed 11893755]).

CYGB Antibody (monoclonal) (M01) - References

Cytoglobin conformations and disulfide bond formation. Lechauve C, et al. FEBS J, 2010 Jun. PMID 20553503.Nitric-oxide dioxygenase function of human cytoglobin with cellular reductants and in rat hepatocytes. Gardner AM, et al. J Biol Chem, 2010 Jul 30. PMID 20511233.Cytoglobin is upregulated by tumour hypoxia and silenced by promoter hypermethylation in head and neck cancer. Shaw RJ, et al. Br J Cancer, 2009 Jul 7. PMID 19568272.Cytoglobin is expressed in the vasculature and regulates cell respiration and proliferation via nitric oxide dioxygenation. Halligan KE, et al. J Biol Chem, 2009 Mar 27. PMID 19147491.Patterns of distribution of oxygen-binding globins, neuroglobin and cytoglobin in human retina. Ostoji? J, et al. Arch Ophthalmol, 2008 Nov. PMID 19001220.