

CYGB Antibody (monoclonal) (M02)**Mouse monoclonal antibody raised against a full length recombinant CYGB.****Catalog # AT1699a****Specification**

CYGB Antibody (monoclonal) (M02) - Product Information

Application	IF, WB, IHC, E
Primary Accession	Q8WWM9
Other Accession	BC029798
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	21405

CYGB Antibody (monoclonal) (M02) - 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.

Dilution

WB~~1:500~1000

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) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

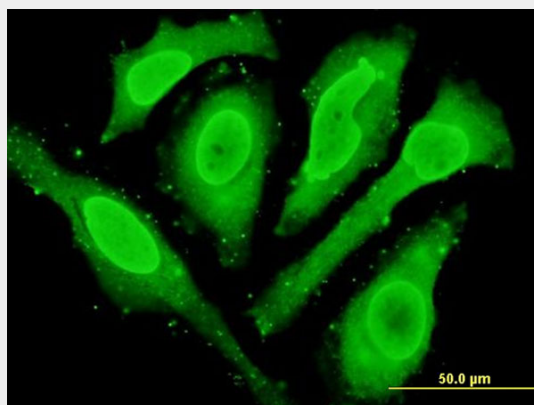
CYGB Antibody (monoclonal) (M02) - Protocols

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

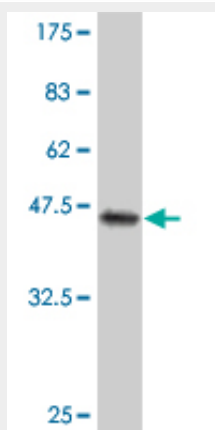
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

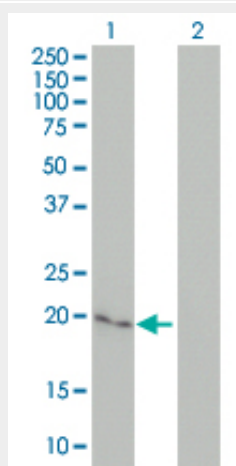
CYGB Antibody (monoclonal) (M02) - Images



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



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (46.64 KDa) .

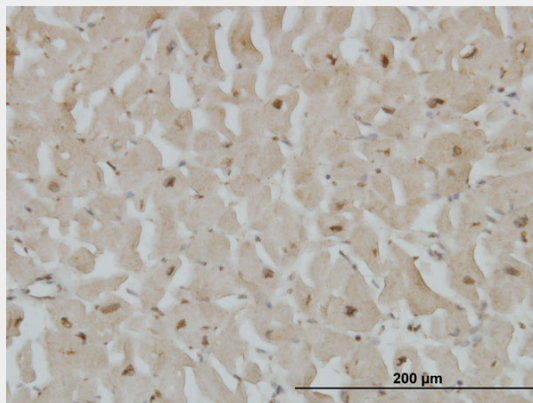


Western Blot analysis of CYGB expression in transfected 293T cell line by CYGB monoclonal

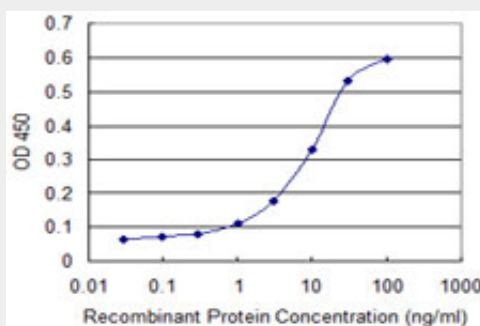
antibody (M02), clone 1A1.

Lane 1: CYGB transfected lysate(21 KDa).

Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to CYGB on formalin-fixed paraffin-embedded human heart. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged CYGB is approximately 1ng/ml as a capture antibody.

CYGB Antibody (monoclonal) (M02) - 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) (M02) - References

1.Cytoglobin has bimodal: tumour suppressor and oncogene functions in lung cancer cell lines.Oleksiewicz U, Liloglou T, Tasopoulou KM, Daskoulidou N, Bryan J, Gosney JR, Field JK, Xinarianos GHum Mol Genet. 2013 Apr 24;2.Pathway specific gene expression profiling reveals oxidative stress genes potentially regulated by transcription co-activator LEDGF/p75 in prostate cancer cells.Basu A, Drame A, Munoz R, Gijsbers R, Debyser Z, De Leon M, Casiano CA.Prostate. 2011 Jul 27. doi: 10.1002/pros.21463. [Epub ahead of print]3.p53-mediated apoptosis, neuroglobin overexpression, and globin deposits in a patient with hereditary ferritinopathy.Powers JM.J Neuropathol Exp Neurol. 2006 Jul;65(7):716-21.4.Hypoxia differentially regulates the expression of neuroglobin and cytoglobin in rat brain.Li RC, Lee SK, Pouranfar F, Brittian KR, Clair HB, Row BW, Wang Y, Gozal D.Brain Res. 2006 Jun 22;1096(1):173-9. Epub 2006 Jun 5.

CYGB Antibody (monoclonal) (M02) - Citations

- [Gene expression profiles and differential cytoglobin expression in atrophy and adenocarcinoma of the prostate.](#)

