

CYGB Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant CYGB.

Catalog # AT1698a

Product Information

Application	IF
Primary Accession	Q8WWM9
Other Accession	BC029798
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a kappa
Clone Names	3A5-2D2
Calculated MW	21405

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	IF~~1:50~200
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.

Background

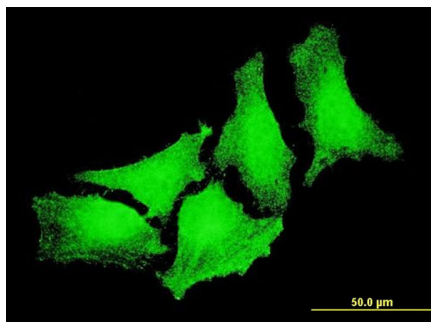
Cytoglobin is a ubiquitously expressed hexacoordinate hemoglobin that may facilitate diffusion of oxygen through tissues, scavenge nitric oxide or other reactive oxygen species, or serve a protective function during oxidative stress (Trent and Hargrove, 2002 [PubMed 11893755]).

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. Ostojić J, et al. Arch Ophthalmol, 2008 Nov. PMID 19001220.

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.