## Cytochrome c Recombinant Monoclonal Mouse Antibody (rCYCS/1010)



Call us: 800-304-5357

## **Product Description**

Recognizes an epitope within amino acids 93-104 of pigeon Cytochrome C, a well-characterized mob transport protein that is essential to energy conversion in all aerobic organisms. In mammalian cells, the conserved protein is normally localized to the mitochondrial inter-membrane space. More recent studiidentified cytosolic cytochrome c as a factor necessary for activation of apoptosis. During apoptosis, c is trans-located from the mitochondrial membrane to the cytosol, where it is required for activation of c (CPP32). Overexpression of Bcl-2 has been shown to prevent the translocation of cytochrome c, there the apoptotic process. Overexpression of Bax has been shown to induce the release of cytochrome c cell death. The release of cytochrome c from the mitochondria is thought to trigger an apoptotic casca Apaf-1 binds to Apaf-3 (caspase-9) in a cytochrome c-dependent manner, leading to caspase-9 cleav caspase-3. This MAb recognizes total cytochrome C which includes both apocytochrome (i. e. cytochrome) cytosol without heme attached) and holocytochrome (i. e cytochrome in the mitochondria with heme at Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels offer exceptional brightness and photostability. See the <u>CF® Dye Brochure</u> for more information. Note of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance. because blue dyes have lower fluorescence and can give higher non-specific background than other d Stock status: Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order.

	Product attributes			
	Antibody number	#3641		
	Antibody reactivity (target) Antibody type	Cytochrome c		
		Primary		
	Host species	Mouse		
	Clonality	Recombinant Monoclonal		
	Clone	rCYCS/1010		
	Isotype	lgG1, kappa		
	Molecular weight	15 kDa		
bile electron this highly ies have cytochrome c caspase-3 eby blocking and to induce ade, whereby vage of arome in the attached). s. CF® dyes e: Conjugates lance targets, dye colors.	Synonyms	CYC; CYCS; HCS; THC4		
	Human gene symbol	CYCS		
	Entrez gene ID	54205		
	SwissProt	P99999		
	Unigene	437060		
	Immunogen	Synthetic peptides corresponding to amino acid 1-80, 81-104 and 66-104 of pigeon cytochrome c		
	Verified antibody applications	Flow (intracellular) (verified), IHC (FFPE) (verified), WB (verified)		
	Antibody target cellular localization	Mitochondria		
	Species reactivity	Dog, Drosophila, Frog, Horse, Human, Mouse, Pigeon, Rat		
	Positive control	K-562, HL-60, Jurkat, NIH3T3 or PC-3 cells. Liver or Cardiac muscle.		

Shipping condition

Storage Conditions

Regulatory status

Shelf life

Antibody/conjugate formulation

Antibody research areas

Email: btinfo@biotium.com

Room temperature

without azide

Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C

Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS

Guaranteed for at least 24 months from date of receipt when stored as recommended

For research use only (RUO)

Antibody # prefix BNC04	Conjugation CF®405S	Ex/Em (nm) 404/431	Laser line 405	<b>Detection channel</b> DAPI (microscopy), AF405	Dye Features <a href="mailto:CF®405S Features">CF®405S Features</a>
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified,	N/A	N/A	N/A	

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