

**ARG56070**  
**anti-Cytochrome C antibody [7H8.2C12]**Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [7H8.2C12] recognizes Cytochrome C
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	7H8.2C12
Isotype	IgG2b, kappa
Target Name	Cytochrome C
Immunogen	Synthetic peptides around aa. 1-80, 81-104 and 66-104 of Pigeon Cytochrome C.
Conjugation	Un-conjugated
Alternate Names	CYC; HCS; Cytochrome c; THC4

### Application Instructions

Application table	Application	Dilution
	FACS	1 - 2 µg/10 <sup>6</sup> cells
	IHC-P	2 - 5 µg/ml
	WB	1 - 2 µg/ml
Application Note	IHC-P: Antigen Retrieval: Boil tissue section in 10 mM Citrate buffer (pH 6.0) for 10-20 min, followed by cooling at RT for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.05% Sodium azide and 0.1 mg/ml BSA
Preservative	0.05% Sodium azide
Stabilizer	0.1 mg/ml BSA
Concentration	0.2 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol

CYCS

Gene Full Name

cytochrome c, somatic

Background

This gene encodes a small heme protein that functions as a central component of the electron transport chain in mitochondria. The encoded protein associates with the inner membrane of the mitochondrion where it accepts electrons from cytochrome b and transfers them to the cytochrome oxidase complex. This protein is also involved in initiation of apoptosis. Mutations in this gene are associated with autosomal dominant nonsyndromic thrombocytopenia. Numerous processed pseudogenes of this gene are found throughout the human genome.[provided by RefSeq, Jul 2010]

Function

Electron carrier protein. The oxidized form of the cytochrome c heme group can accept an electron from the heme group of the cytochrome c1 subunit of cytochrome reductase. Cytochrome c then transfers this electron to the cytochrome oxidase complex, the final protein carrier in the mitochondrial electron-transport chain.

Plays a role in apoptosis. Suppression of the anti-apoptotic members or activation of the pro-apoptotic members of the Bcl-2 family leads to altered mitochondrial membrane permeability resulting in release of cytochrome c into the cytosol. Binding of cytochrome c to Apaf-1 triggers the activation of caspase-9, which then accelerates apoptosis by activating other caspases. [UniProt]

Calculated Mw

12 kDa

PTM

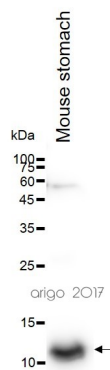
Binds 1 heme group per subunit.

Phosphorylation at Tyr-49 and Tyr-98 both reduce by half the turnover in the reaction with cytochrome c oxidase, down-regulating mitochondrial respiration.

Cellular Localization

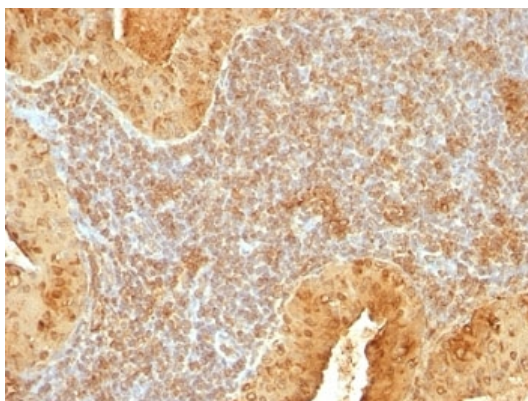
Cytoplasmic

Images



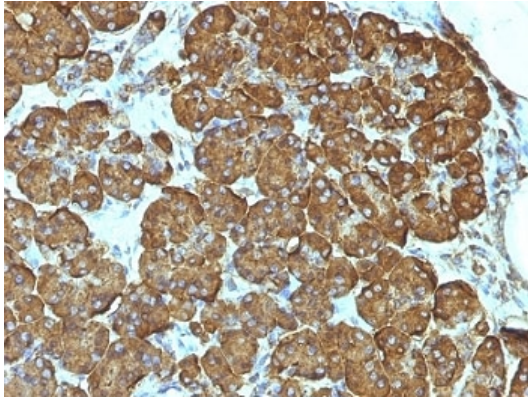
ARG56070 anti-Cytochrome C antibody [7H8.2C12] WB image

Western blot: 30 µg of Mouse stomach lysate stained with ARG56070 anti-Cytochrome C antibody [7H8.2C12] at 1:200 dilution.



ARG56070 anti-Cytochrome C antibody [7H8.2C12] IHC-P image

Immunohistochemistry: Formalin-fixed, paraffin-embedded Human salivary tumor stained with ARG56070 anti-Cytochrome C antibody [7H8.2C12].



**ARG56070 anti-Cytochrome C antibody [7H8.2C12] IHC-P image**

Immunohistochemistry: Formalin-fixed, paraffin-embedded Human pancreas stained with ARG56070 anti-Cytochrome C antibody [7H8.2C12].