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# Datasheet for ABIN3042783 anti-Cytochrome C antibody (AA 2-105)

5 Images

20 Publications



## Overview

Quantity:	100 µg
Target:	Cytochrome C (CYCS)
Binding Specificity:	AA 2-105
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cytochrome C antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Cytochrome c(CYCS) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat.
Immunogen:	E.coli-derived human Cytochrome C recombinant protein (Position: G2-E105). Human Cytochrome C shares 91% amino acid (aa) sequence identity with both mouse and rat Cytochrome C.
Isotype:	lgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Cytochrome c(CYCS) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat. Gene Name: cytochrome c, somatic

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Product Details	
	Protein Name: Cytochrome c
Purification:	Immunogen affinity purified.

## Target Details

Target Details		
Target:	Cytochrome C (CYCS)	
Alternative Name:	CYCS (CYCS Products)	
Background:	CYCS is also known as CYC, HCS or THC4. 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.	
	Synonyms: CYC antibody CYC_HUMAN antibody CYCS antibody Cytochrome c	
	antibody Cytochrome c somatic antibody HCS antibody THC4 antibody	
Gene ID:	54205	
UniProt:	P99999	
Pathways:	Apoptosis, Caspase Cascade in Apoptosis, Positive Regulation of Endopeptidase Activity	
Application Details		
Application Notes:	WB: Concentration: 0.1-0.5 $\mu$ g/mL, Tested Species: Human, Mouse, Rat, The detection limit for	
	Cytochrome C is approximately 0.1 ng/lane under reducing conditions.	
	IHC-P: Concentration: 0.5-1 $\mu$ g/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by	
	Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the	
	staining of formalin/paraffin sections.	
	ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human	
	Notes: Tested Species: Species with positive results. Other applications have not been tested.	
	Optimal dilutions should be determined by end users.	
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by	
	ABIN921231 in IHC(P) and ICC.	
Restrictions:	For Research Use only	

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### Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 $\mu$ g/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

### Publications

Product cited in: Ostermann, Seeliger, David, Flasche, Maus, Reinboth, Christmann, Neumann, Brand, Seltmann, Bühling, Paton, Roth, Vogl, Viemann, Welte, Maus: "S100A9 is indispensable for survival of pneumococcal pneumonia in mice." in: **PLoS pathogens**, Vol. 19, Issue 7, pp. e1011493, (2023) (PubMed).

> Ostermann, Maus, Stolper, Schütte, Katsarou, Tumpara, Pich, Mueller, Janciauskiene, Welte, Maus: "Alpha-1 antitrypsin deficiency impairs lung antibacterial immunity in mice." in: **JCI insight**, Vol. 6, Issue 3, (2021) (PubMed).

Hu, Wang, Rao, Zhao, Yang, Hu, He, Xia, Liu, Zhen, Di, Xie, Xia, Zhu: "Alterations in the endometrium of rats, rabbits, and Macaca mulatta that received an implantation of copper/lowdensity polyethylene nanocomposite." in: **International journal of nanomedicine**, Vol. 9, pp. 1127-38, (2015) (PubMed).

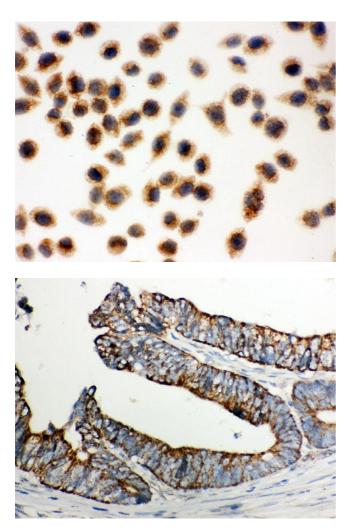
Zhou, Chen, Jiang, Feng, Han: "Effects of bone marrow-derived mesenchymal stem cells transfected with survivin on pulmonary fibrosis in mice." in: **Experimental and therapeutic medicine**, Vol. 10, Issue 5, pp. 1857-1864, (2015) (PubMed).

Wu, You, Ma, Li, Yuan, Li, Ye, Liu, Yao, Chen, Lai, Yang: "Role of transient receptor potential ion

channels and evoked levels of neuropeptides in a formaldehyde-induced model of asthma in BALB/c mice." in: **PLoS ONE**, Vol. 8, Issue 5, pp. e62827, (2013) (PubMed).

There are more publications referencing this product on: Product page

#### Images

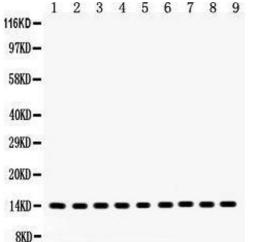


#### Immunohistochemistry (Paraffin-embedded Sections)

Image 1.

#### Immunohistochemistry

**Image 2.** Anti- Cytochrome C Picoband antibody, IHC(P) IHC(P): Human Intestinal Cancer Tissue



#### **Western Blotting**

**Image 3.** Anti- Cytochrome C Picoband antibody, Western blotting All lanes: Anti Cytochrome C at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 50ug Lane 2: Mouse Brain Tissue Lysate at 50ug Lane 3: Rat Cardiac Muscle Tissue Lysate at 50ug Lane 4: Mouse Cardiac Muscle Tissue Lysate at 50ug Lane 5: U87 Whole Cell Lysate at 40ug Lane 6: NEURO Whole Cell Lysate at 40ug Lane 7: HELA Whole Cell Lysate at 40ug Lane 8: JURKAT Whole Cell Lysate at 40ug Lane 9:

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Human Placenta Tissue Lysate at 50ug Predicted bind size:

14KD Observed bind size: 14KD

Please check the product details page for more images. Overall 5 images are available for ABIN3042783.

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