

Datasheet for ABIN3043697

anti-Cytochrome C antibody (C-Term)

5 Images

19 Publications

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Overview

Quantity:	100 µg
Target:	Cytochrome C (CYCS)
Binding Specificity:	AA 91-105, C-Term
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), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Cytochrome c(CYCS) detection. Tested with WB, IHC-P, IHC-F, ICC in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Cytochrome C(91-105 aa ERADLIAYLKATNE), identical to the related mouse and rat sequences.
Sequence:	ERADLIAYLK KATNE
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Cytochrome c(CYCS) detection. Tested with WB, IHC-P, IHC-F, ICC in Human,Mouse,Rat. Gene Name: cytochrome c, somatic

Product Details

Protein Name: Cytochrome c

Purification: Immunogen affinity purified.

Target Details

Target: Cytochrome C (CYCS)

Alternative Name: [CYCS \(CYCS Products\)](#)

Background: Cytochrome C is located in the mitochondria of all aerobic cells and is involved in the electron transport system. Human cytochrome c has 104 amino acid residues and a molecular weight of 11,458 and is mapped to 7p15.2. Cytochrome c released from mitochondria has been proposed to be an essential component of an apoptotic pathway responsive to DNA damage and other forms of cell stress. And it has a role in different apoptotic signaling cascades.

Synonyms: [CYC antibody](#)|[CYC_HUMAN antibody](#)|[CYCS antibody](#)|[Cytochrome c antibody](#)|[Cytochrome c somatic antibody](#)|[HCS antibody](#)|[THC4 antibody](#)

UniProt: [P99999](#)

Pathways: [Apoptosis](#), [Caspase Cascade in Apoptosis](#), [Positive Regulation of Endopeptidase Activity](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse,
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.
IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse
ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. 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), IHC(F) and ICC.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES 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:	<p>Bai, Yang, Luo: "Effects of 5-hydroxy-4'-nitro-7-propionyloxy-genistein on inhibiting proliferation and invasion via activating reactive oxygen species in human ovarian cancer A2780/DDP cells." in: Oncology letters, Vol. 15, Issue 4, pp. 5227-5235, (2018) (PubMed).</p> <p>Jiao, Ma, Wang, Li, Shan, Sun, Chen: "Methacryloxyethyl Cetyl Ammonium Chloride Induces DNA Damage and Apoptosis in Human Dental Pulp Cells via Generation of Oxidative Stress." in: International journal of biological sciences, Vol. 12, Issue 5, pp. 580-93, (2017) (PubMed).</p> <p>Hu, Sun, Zhang, Zhang, Hu: "Catalpol inhibits apoptosis in hydrogen peroxide-induced cardiac myocytes through a mitochondrial-dependent caspase pathway." in: Bioscience reports, Vol. 36, Issue 3, (2017) (PubMed).</p> <p>Gan, Liu, Cao, Zhang, Sun: "FABP4 reversed the regulation of leptin on mitochondrial fatty acid oxidation in mice adipocytes." in: Scientific reports, Vol. 5, pp. 13588, (2016) (PubMed).</p> <p>Han, Liu, Li, Tian, Han, Wang, Fu, Guo, Zhu, Du, Tian: "HOXB1 Is a Tumor Suppressor Gene Regulated by miR-3175 in Glioma." in: PLoS ONE, Vol. 10, Issue 11, pp. e0142387, (2016) (PubMed).</p>
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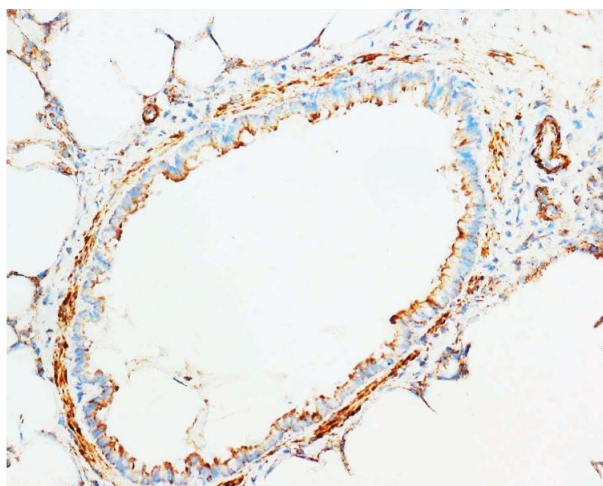
There are more publications referencing this product on: [Product page](#)

Images



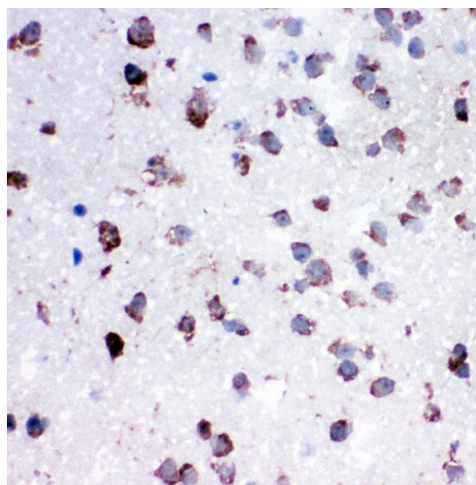
Western Blotting

Image 1. Anti-Cytochrome C antibody, Western blotting All lanes: Anti Cytochrome C at 0.5ug/ml Lane 1: Rat Liver Tissue Lysate at 50ug Lane 2: HELA Whole Cell Lysate at 40ug Lane 3: MCF-7 Whole Cell Lysate at 40ug Lane 4: HEPA Whole Cell Lysate at 40ug Predicted bind size: 12KD Observed bind size: 12KD



Immunohistochemistry

Image 2. Anti-Cytochrome C antibody, IHC(F) IHC(F): Rat Brain Tissue



Immunohistochemistry

Image 3. Anti-Cytochrome C antibody, IHC(P) IHC(P): Rat Lung Tissue

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3043697.