

Product Datasheet

Cytochrome c Antibody (rCYCS/1010)

NBP3-07618-100ug

Unit Size: 100 ug

Store at 4C.

www.novusbio.com



technical@novusbio.com

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP3-07618

Updated 7/16/2024 v.20.1

Earn rewards for product reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NBP3-07618



NBP3-07618-100ug

Cytochrome c Antibody (rCYCS/1010)

| Product Information | |
|-------------------------|--------------------------|
| Unit Size | 100 ug |
| Concentration | 0.2 mg/ml |
| Storage | Store at 4C. |
| Clonality | Monoclonal |
| Clone | rCYCS/1010 |
| Preservative | 0.05% Sodium Azide |
| Isotype | IgG1 Kappa |
| Purity | Protein A or G purified |
| Buffer | 10 mM PBS with 0.05% BSA |
| Target Molecular Weight | 15 kDa |

| Product Description | |
|-------------------------|--|
| Description | 200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP3-08588) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C. |
| Host | Mouse |
| Gene ID | 54205 |
| Gene Symbol | CYCS |
| Species | Human, Mouse, Rat, Amphibian, Canine, Drosophila, Equine, Pigeon |
| Reactivity Notes | Frog |
| Marker | Mitochondrial Marker |
| Specificity/Sensitivity | It recognizes an epitope within amino acids 93-104 of pigeon Cytochrome C, a well-characterized mobile electron transport protein that is essential to energy conversion in all aerobic organisms. In mammalian cells, this highly conserved protein is normally localized to the mitochondrial inter-membrane space. More recent studies have identified cytosolic cytochrome c as a factor necessary for activation of apoptosis. During apoptosis, cytochrome c is trans-located from the mitochondrial membrane to the cytosol, where it is required for activation of caspase-3 (CPP32). Overexpression of Bcl-2 has been shown to prevent the translocation of cytochrome c, thereby blocking the apoptotic process. Overexpression of Bax has been shown to induce the release of cytochrome c and to induce cell death. The release of cytochrome c from the mitochondria is thought to trigger an apoptotic cascade, whereby Apaf-1 binds to Apaf-3 (caspase-9) in a cytochrome c-dependent manner, leading to caspase-9 cleavage of caspase-3. This monoclonal antibody recognizes total cytochrome C which includes both apocytochrome (i.e. cytochrome in the cytosol without heme attached) and holocytochrome (i.e cytochrome in the mitochondria with heme attached). |
| Immunogen | Synthetic peptides corresponding to amino acid 1-80, 81-104 and 66-104 of pigeon cytochrome c (Uniprot: P99999) |

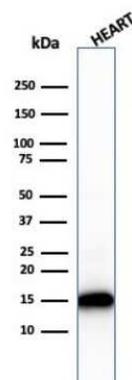
| Product Application Details | |
|-----------------------------|---|
| Applications | Western Blot, Flow Cytometry, Immunohistochemistry-Paraffin |



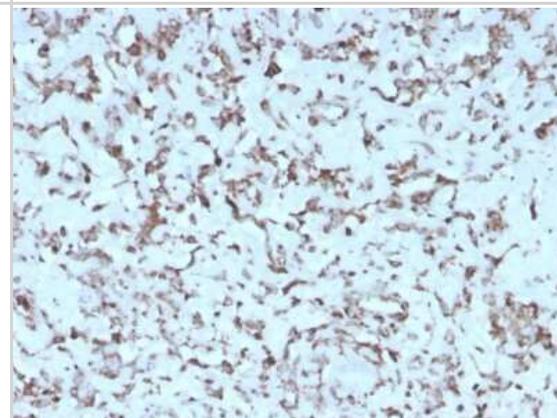
| | |
|------------------------------|---|
| Recommended Dilutions | Western Blot 1-2 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry-Paraffin 1-2 ug/ml |
| Application Notes | Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. |

Images

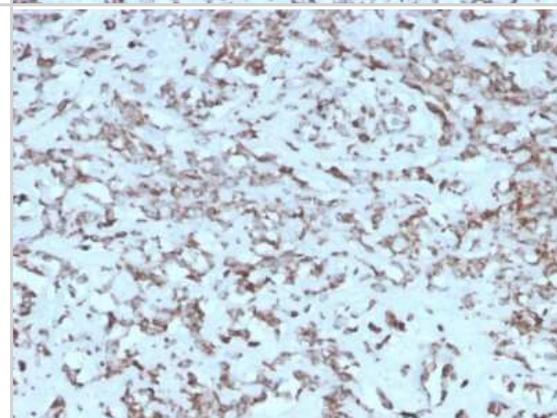
Western Blot: Cytochrome c Antibody (rCYCS/1010) [NBP3-07618] - Western Blot Analysis of human heart tissue lysate using Cytochrome c Recombinant Mouse Monoclonal Antibody (rCYCS/1010).



Immunohistochemistry-Paraffin: Cytochrome c Antibody (rCYCS/1010) [NBP3-07618] - Formalin-fixed, paraffin-embedded human Liver stained with Cytochrome c Mouse Monoclonal Antibody (rCYCS/1010).



Immunohistochemistry-Paraffin: Cytochrome c Antibody (rCYCS/1010) [NBP3-07618] - Formalin-fixed, paraffin-embedded human Liver stained with Cytochrome c Mouse Monoclonal Antibody (rCYCS/1010).





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP3-07618-100ug

| | |
|------------------|---|
| HAF007 | Goat anti-Mouse IgG Secondary Antibody [HRP] |
| NB720-B | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-43319-0.5mg | Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1) |
| 210-TA-005 | TNF-alpha [Unconjugated] |

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP3-07618

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

