

Product Datasheet

Cytochrome C Antibody NB100-56503SS

Unit Size: 0.025 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB100-56503SS

Cytochrome C Antibody (7H8.2C12)

Product Information	
Unit Size	0.025 mg
Concentration	0.5 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	7H8.2C12
Preservative	0.05% Sodium Azide
Isotype	IgG2b Kappa
Purity	Protein G purified
Buffer	PBS containing 0.5% BSA

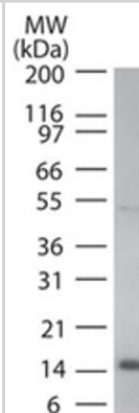
Product Description	
Host	Mouse
Gene ID	54205
Gene Symbol	CYCS
Species	Human, Canine, Drosophila, Equine, Mammal, Porcine, Rabbit
Species Reactivity	Cross reacts with Canine, Drosophila, Honey Bee, Equine, Human, Mammals, Porcine and Rabbit.
Marker	Mitochondria Marker
Specificity/Sensitivity	An approx. 15 kDa band is observed. This 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 acids 1-80, 81-104 and 66-104 of pigeon CYT were used as the immunogen (Jemmerson et al. 1991). The antibody recognizes an epitope within amino acids 93-104 of pigeon cytochrome C based on competitive ELISA results (Jemmerson et al. 1991).

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Flow Cytometry 1:10-1:1000, Immunocytochemistry/Immunofluorescence 1:10-1:500, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Western Blot 0.05-0.5 ug/ml
Application Notes	Useful in Flow Cytometry (Intracellular): See Mohr (2004) et al. Immunocytochemistry/Immunofluorescence: See Yamasaki (2006) et al. Immunohistochemistry-Paraffin: See Fujimara (1998). et al.



Images

Western Blot: Cytochrome C Antibody (7H8.2C12) [NB100-56503] - Analysis using cytochrome C antibody. Human HeLa lysate probed with cytochrome C antibody at 0.1 ug/ml.



Publications

- Wang J, Schilling JM, Niesman IR et al. Cardioprotective Trafficking of Caveolin to Mitochondria Is Gi-protein Dependent. *Anesthesiology*. 2014 May 12 [PMID: 24821070] (WB, Mouse)
- Pradhan N, Pratheek BM, Garai A et al. Induction of apoptosis by Fe(salen)Cl through caspase-dependent pathway specifically in tumor cells. *Cell Biol. Int.* 2014 May 07 [PMID: 24804954] (WB, Human, Mouse)
- Arnoult D, Grodet A, Lee YJ et al. Release of OPA1 during apoptosis participates in the rapid and complete release of cytochrome c and subsequent mitochondrial fragmentation. *J Biol Chem*. 2005 Oct 21 [PMID: 16115883]
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- Walczak H, Bouchon A, Stahl H, Krammer PH. Tumor necrosis factor-related apoptosis-inducing ligand retains its apoptosis-inducing capacity on Bcl-2- or Bcl-xL-overexpressing chemotherapy-resistant tumor cells. *Cancer Res*. 2000 Jun 1 [PMID: 10850456]
- Kamal A, Sreekanth K, Kumar PP et al. Synthesis and potential cytotoxic activity of new phenanthrylphenol-pyrrolobenzodiazepines. *Eur J Med Chem*. 2010 Jun [PMID: 20171761]
- Shen HM, Yang CF, Ding WX et al. Superoxide radical-initiated apoptotic signalling pathway in selenite-treated HepG (2) cells: mitochondria serve as the main target. *Free Radic Biol Med*. 2001 Jan 1 [PMID: 11134891]
- Narvaez CJ, Welsh J. Role of mitochondria and caspases in vitamin D-mediated apoptosis of MCF-7 breast cancer cells. *J Biol Chem*. 2001 Mar 23 [PMID: 11053435]
- Pervaiz S, Seyed MA, Hirpara JL et al. Purified photoproducts of merocyanine 540 trigger cytochrome C release and caspase 8-dependent apoptosis in human leukemia and melanoma cells. *Blood*. 1999 Jun 15 [PMID: 10361106]
- Zhu C, Wang X, Cheng X et al. Post-ischemic hypothermia-induced tissue protection and diminished apoptosis after neonatal cerebral hypoxia-ischemia. *Brain Res*. 2004 Jan 16 [PMID: 14670632]
- Maeno E, Ishizaki Y, Kanaseki T et al. Normotonic cell shrinkage because of disordered volume regulation is an early prerequisite to apoptosis. *Proc Natl Acad Sci U S A*. 2000 Aug 15 [PMID: 10900263]
- More publications at <http://www.novusbio.com/NB100-56503>



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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 guarantee, please visit www.novusbio.com/guarantee.

