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anti-Cytochrome C antibody (AA 1-80)





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| Overview | |
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| Quantity: | 100 μg |
| Target: | Cytochrome C (CYCS) |
| Binding Specificity: | AA 1-80 |
| Reactivity: | Human, Rat, Mouse, Horse, Pigeon, Dog, Drosophila melanogaster, Frog |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This Cytochrome C antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS), Staining Methods (StM) |
| Product Details | |
| Immunogen: | Synthetic peptides corresponding to amino acid 1-80, 81-104 and 66-104 of pigeon cytochrome c |
| Clone: | SPM389 |
| Isotype: | IgG2b kappa |
| Specificity: | 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 MAb 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).

Purification:

Purified by Protein A/G

Target Details

| Target: | Cytochrome C (CYCS) |
|-------------------|--|
| Alternative Name: | CYCS (CYCS Products) |
| Molecular Weight: | 15kDa |
| Gene ID: | 54205 |
| UniProt: | P99999 |
| Pathways: | Apoptosis, Caspase Cascade in Apoptosis, Positive Regulation of Endopeptidase Activity |

Application Details

| Application | Notes: |
|---------------|-----------|
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Positive Control: K-562, HL-60, Jurkat, NIH3T3 or PC-3 cells. Liver or Cardiac muscle. Known Application: Flow Cytometry (0.5-1 μ g/million cells), Immunofluorescence (0.5-1 μ g/mL), Western Blot (0.5-1 μ g/mL), Immunohistochemistry (Formalin-fixed) (0.5-1 μ g/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions:

For Research Use only

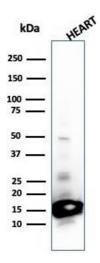
Handling

| Concentration: | 200 μg/mL | |
|----------------|---|--|
| Buffer: | 10 mM PBS with 0.05 % BSA & 0.05 % azide. | |
| Preservative: | Sodium azide | |

Handling

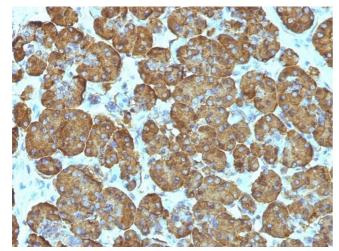
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which |
|--------------------|---|
| | should be handled by trained staff only. |
| Storage: | 4 °C,-80 °C |
| Storage Comment: | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required. |
| Expiry Date: | 24 months |

Images



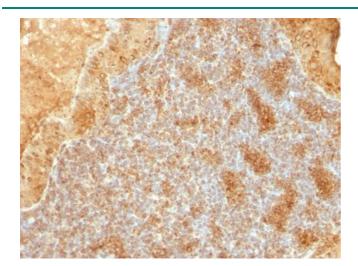
Western Blotting

Image 1. Western Blot Analysis of Heart tissue lysate using Cytochrome C Mouse Monoclonal Antibody (SPM389).



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Pancreas stained with Cytochrome C Monoclonal Antibody (SPM389).



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Salivary Tumor stained with Cytochrome C Monoclonal Antibody (SPM389).

Please check the product details page for more images. Overall 4 images are available for ABIN6940320.