# Mouse Cytochrome C Monoclonal Antibody | anti-CYCS antibody

Cytochrome C (Mitochondrial Marker) Mouse Monoclonal Antibody

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA62814** | **Mouse** | **Human, Mouse, Rat, Horse, Dog, Pigeon, Frog, Drosophila.Others not known** | **Immunohistochemistry, Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay** |

## PRODUCT SYNONYMS

Cytochrome C; Monoclonal Antibody; Cytochrome C (Mitochondrial Marker) Mouse Monoclonal Antibody; CYC; CYCS; HCS; THC4; anti-CYCS antibody

## PRODUCT SPECIFICATIONS

| | |
|---|---|
| **Host** | Mouse |
| **Reactivity** | Human, Mouse, Rat, Horse, Dog, Pigeon, Frog, Drosophila.<br>Others not known |
| **Clonality** | Monoclonal |
| **Isotype** | IgG2b, kappa |
| **Clone Number** | 7H8.2C12 |
| **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). |
| **Form/Format** | 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 1mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| **Sequence Length** | 105 |
| **Applicable Applications for anti-CYCS antibody** | IHC (Immunohistochemistry), WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry) |
| **Cellular Localization** | Cytoplasmic |
| **Immunogen** | Synthetic peptides corresponding to amino acid 1-80, 81-104 and 66-104 of pigeon cytochrome c |
| **Hu-Chromosome Location** | 7p15.3 |
| **Positive Control** | K-562, HL-60, Jurkat, NIH3T3 or PC-3 cells. Liver or Cardiac muscle. |
| **Preparation and Storage** | Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required. |

## IMAGES

**IHC (Immunohiostchemistry)**
Formalin-fixed, paraffin-embedded human Pancreas stained with Cytochrome C Monoclonal Antibody (7H8.2C12).

**IHC (Immunohistochemistry)**
Formalin-fixed, paraffin-embedded human Salivary Tumor stained with Cytochrome C Monoclonal Antibody (7H8.2C12).

## ADDITIONAL INFORMATION

| | |
|---|---|
| **References** | Goshorn SG, E Retzel, and R Jemmerson. Common Structural Features among Monoclonal Antibodies Binding the Same Antigenic Region of Cytochrome c. J Biol Chem 266:2134-2142 (1991). |

## NCBI AND UNIPROT INFORMATION

| | |
|---|---|
| **NCBI GI #** | 11128019 |
| **NCBI GeneID** | 54205 |
| **NCBI Accession #** | NP_061820.1 |
| **NCBI GenBank Nucleotide #** | NM_018947.5 |
| **UniProt Accession #** | P99999; P00001; Q6NUR2; Q6NX69; Q96BV4; A4D166; B2R4I1 |
| **Molecular Weight** | 15kDa |
| **NCBI Official Full Name** | cytochrome c |
| **NCBI Official Synonym Full Names** | cytochrome c, somatic |
| **NCBI Official Symbol** | CYCS |
| **NCBI Official Synonym Symbols** | CYC; HCS; THC4 |
| **NCBI Protein Information** | cytochrome c |
| **UniProt Protein Name** | Cytochrome c |
| **UniProt Gene Name** | **CYCS** |
| **UniProt Synonym Gene Names** | CYC |
| **UniProt Entry Name** | CYC_HUMAN |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

**AAA Biotech** | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/monoclonal/cytochrome-c-antibody-clone-7h8-2c12-immunohistochemistry-western-blot-immunofluorescence-flow-cytometry-elisa/62814