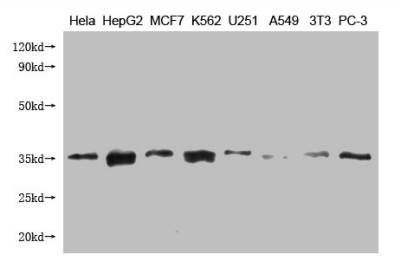
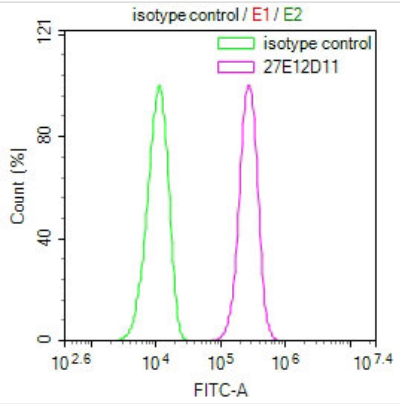
CYC1 Monoclonal Antibody

Product Code	CSB-MA006327A0m
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P08574
Immunogen	Recombinant Human Cytochrome c1 protein (85-325AA)
Raised In	Mouse
Species Reactivity	Human, Mouse
Tested Applications	ELISA, WB, FC; Recommended dilution: WB: 1:1000-1:5000, FC: 1:50-1:200
Relevance	Component of the ubiquinol-cytochrome c oxidoreductase, a multisubunit transmembrane complex that is part of the mitochondrial electron transport chain which drives oxidative phosphorylation. The respiratory chain contains 3 multisubunit complexes succinate dehydrogenase (complex II, CII), ubiquinol-cytochrome c oxidoreductase (cytochrome b-c1 complex, complex III, CIII) and cytochrome c oxidase (complex IV, CIV), that cooperate to transfer electrons derived from NADH and succinate to molecular oxygen, creating an electrochemical gradient over the inner membrane that drives transmembrane transport and the ATP synthase. The cytochrome b-c1 complex catalyzes electron transfer from ubiquinol to cytochrome c, linking this redox reaction to translocation of protons across the mitochondrial inner membrane, with protons being carried across the membrane as hydrogens on the quinol. In the process called Q cycle, 2 protons are consumed from the matrix, 4 protons are released into the intermembrane space and 2 electrons are passed to cytochrome c. Cytochrome c1 is a catalytic core subunit containing a c-type heme. It transfers electrons from the [2Fe-2S] iron-sulfur cluster of the Rieske protein to cytochrome c.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Purification Method	>95%, Protein A purified
Isotype	IgG1
Clonality	Monoclonal
Product Type	Monoclonal Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Tags & Cell Markers; Metabolism; Signal transduction
Target Names	CYC1
Clone No.	27E12D11
Image	



Western Blot
Positive WB detected in: CYC1 antibody at 1:1000
Lane 1: Hela whole cell lysate
Lane 2: HepG2 whole cell lysate
Lane 3: MCF-7 whole cell lysate
Lane 4: K562 whole cell lysate
Lane 5: U251 whole cell lysate
Lane 6: A549 whole cell lysate
Lane 7: NIH/3T3 whole cell lysate
Lane 8: PC-3 whole cell lysate
Secondary
Goat polyclonal to Mouse IgG at 1/20000 dilution
Predicted band size: 35 KDa
Observed band size: 35 KDa
Exposure time: 5min



Overlay Peak curve showing HepG2 cells stained with CSB-MA006327A0m (red line) at 1:100. The cells were incubated in 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1µg/1*106cells) for 1h at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-Mouse IgG(H+L) at 1/100 dilution for 30min at 4°C. Isotype control antibody (green line) was mouse IgG1 (1µg/1*106cells) used under the same conditions. Acquisition of >10,000 events was performed.

Usage

For Research Use Only. Not for use in diagnostic or therapeutic procedures.