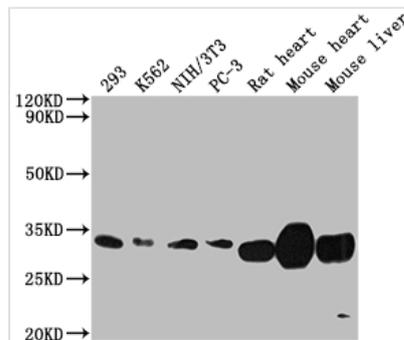




# SDHB Antibody

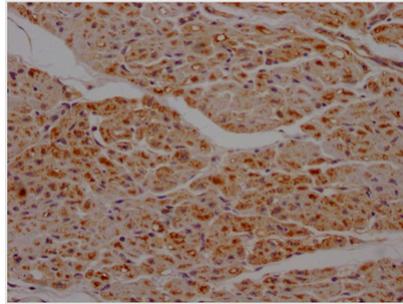
<b>Product Code</b>	CSB-RA987662A0HU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P21912
<b>Immunogen</b>	A synthesized peptide derived from human SDHB
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Tested Applications</b>	ELISA, WB, IHC, FC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200, FC:1:20-1:200
<b>Relevance</b>	Iron-sulfur protein (IP) subunit of succinate dehydrogenase (SDH) that is involved in complex II of the mitochondrial electron transport chain and is responsible for transferring electrons from succinate to ubiquinone (coenzyme Q).
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Cancer; Cell biology; Metabolism; Signal transduction
<b>Gene Names</b>	SDHB
<b>Accession NO.</b>	7D12

## Image

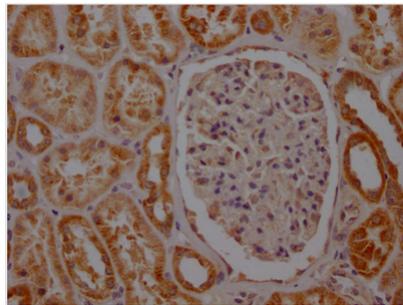


### Western Blot

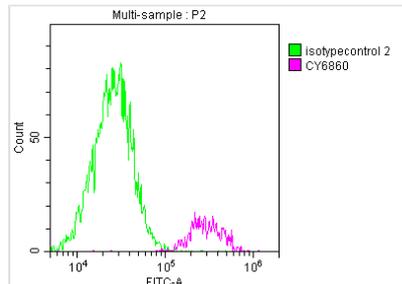
Positive WB detected in: 293 whole cell lysate, K562 whole cell lysate, NIH/3T3 whole cell lysate, PC-3 whole cell lysate, Rat heart tissue, Mouse heart tissue, Mouse liver tissue  
 All lanes: SDHB antibody at 1:2000  
 Secondary  
 Goat polyclonal to rabbit IgG at 1/50000 dilution  
 Predicted band size: 32 kDa  
 Observed band size: 32 kDa



IHC image of CSB-RA987662A0HU diluted at 1:100 and staining in paraffin-embedded human heart tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



IHC image of CSB-RA987662A0HU diluted at 1:100 and staining in paraffin-embedded human kidney tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



Overlay histogram showing 293 cells stained with CSB-RA987662A0HU (red line) at 1:50. The cells were fixed with 70% Ethylalcohol (18h) and then incubated in 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1µg/1\*10<sup>6</sup>cells) for 1 h at 4°C. The secondary antibody used was FITC-conjugated goat anti-rabbit IgG (H+L) at 1/200 dilution for 30min at 4°C. Control antibody (green line) was Rabbit IgG (1µg/1\*10<sup>6</sup>cells) used under the same conditions. Acquisition of >10,000 events was performed.

## Description

SDHB is one of the subunits of mitochondrial respiratory chain complex II. Low expression of SDHB promotes aerobic glycolysis, and SDHB function loss results in the occurrence and development of many types of tumors, including liver cancer and colorectal cancer. Lack of SDHB function is strongly linked to metabolic alterations in kidney cancer cells. Head and neck paraganglioma and pheochromocytoma are caused by germline mutations in the SDHB gene.

The SDHB antibody genes were cloned from B cells that were derived from immunized animals with A synthesized peptide derived from human SDHB and then introduced into the plasma vectors, which were transfected into mammalian cell lines for up-scaling expression. The product was purified by A synthesized peptide derived from human SDHB to obtain the recombinant antibody against SDHB. This recombinant SDHB antibody is reactive with the SDHB protein from Human, Mouse, Rat. It is recommended for use in the ELISA, WB, IHC, FC.