

# CoraLite® Plus 488-conjugated SDHB Monoclonal antibody

Catalog Number: **CL488-67600**

## Basic Information

<b>Catalog Number:</b> CL488-67600	<b>GenBank Accession Number:</b> BC007840	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 6390	<b>CloneNo.:</b> 1A2A5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P21912	<b>Recommended Dilutions:</b> IF-P 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> succinate dehydrogenase complex, subunit B, iron sulfur (Ip)	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG29868	<b>Calculated MW:</b> 32 kDa	
	<b>Observed MW:</b> 28-32 kDa	

## Applications

<b>Tested Applications:</b> IF-P	<b>Positive Controls:</b> IF-P : human liver cancer tissue,
<b>Species Specificity:</b> Human, Mouse, Rat	

## Background Information

SDHB(Succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial) is also named as SDH, SDH1 and belongs to the succinate dehydrogenase/fumarate reductase iron-sulfur protein family. The SDHD, SDHB, and SDHC genes encode subunits of mitochondrial complex II (succinate dehydrogenase). Mitochondrial complex II is a heterotetrameric complex involved in the aerobic electron transport chain and catalyses the oxidation of succinate to fumarate (Krebs cycle) with transport of electrons to the ubiquinone pool. SDHA and SDHB are the hydrophilic catalytic part of the complex and are highly conserved(J Med Genet 2004;41:e99). Defects in SDHB are a cause of susceptibility to pheochromocytoma (PCC), paragangliomas type 4 (PGL4), paraganglioma and gastric stromal sarcoma (PGGSS) and Cowden-like syndrome (CWDLS).

## Storage

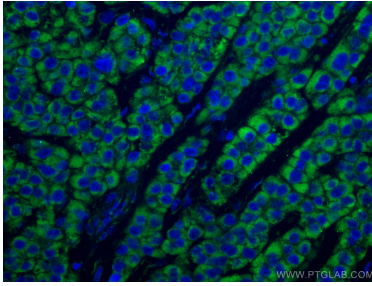
**Storage:**  
Store at -20°C. Avoid exposure to light.

**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

**Aliquoting is unnecessary for -20°C storage**

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using CoraLite® Plus 488 SDHB antibody (CL488-67600, Clone: 1A2A5 ) at dilution of 1:200.