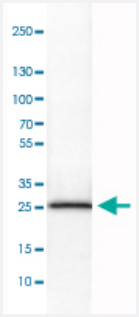
SDHB monoclonal antibody, clone CL0349

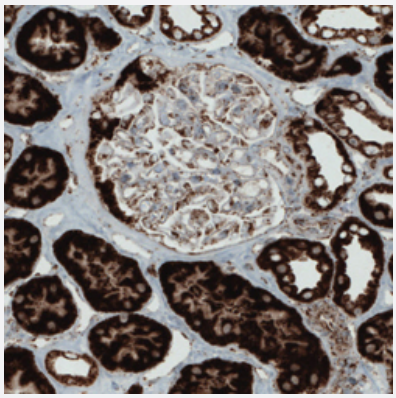
Catalog # MAB15613 Size 100 uL

Applications



Western Blot (Cell lysate)

Western Blot analysis of RT-4 cell lysate with SDHB monoclonal antibody, clone CL0349 (Cat # MAB15613).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human kidney with SDHB monoclonal antibody, clone CL0349 (Cat # MAB15613) shows strong cytoplasmic positivity in renal tubules.

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant human SDHB.
Immunogen	Recombinant protein corresponding to human SDHB.
Epitope	This antibody binds to an epitope located within the peptide sequence RLAKLQDPFS as determined by overlapping synthetic peptides.
Sequence	EGKQQYLQSIEEREKLDGLYECILCACCSTSCPSYWWNGDKYLGPAVLMQAYRWMIDSRDDFTEERLAKLQDPFSLYRCHTIMNCTRTCPKGLNPGKAIAEIKKMMATY
Host	Mouse

Reactivity	Human
Form	Liquid
Purification	Protein A purification
Isotype	IgG1
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:500-1:1000) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western Blot analysis of RT-4 cell lysate with SDHB monoclonal antibody, clone CL0349 (Cat # MAB15613).

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Gene Info — SDHB

Entrez GeneID	6390
Protein Accession#	P21912
Gene Name	SDHB
Gene Alias	FLJ92337, IP, PGL4, SDH, SDH1, SDHIP
Gene Description	succinate dehydrogenase complex, subunit B, iron sulfur (Ip)
Omim ID	115310 171300 185470
Gene Ontology	Hyperlink

Gene Summary	Complex II of the respiratory chain, which is specifically involved in the oxidation of succinate, carries electrons from FADH to CoQ. The complex is composed of four nuclear-encoded subunits and is localized in the mitochondrial inner membrane. The iron-sulfur subunit is highly conserved and contains three cysteine-rich clusters which may comprise the iron-sulfur centers of the enzyme. Sporadic and familial mutations in this gene result in paragangliomas and pheochromocytoma, and support a link between mitochondrial dysfunction and tumorigenesis. [provided by RefSeq
Other Designations	OTTHUMP00000002396|OTTHUMP00000044624|iron-sulfur subunit

Pathway

- Biosynthesis of alkaloids derived from histidine and purine
- Biosynthesis of alkaloids derived from ornithine
- Biosynthesis of alkaloids derived from shikimate pathway
- Biosynthesis of alkaloids derived from terpenoid and polyketide
- Biosynthesis of phenylpropanoids
- Biosynthesis of plant hormones
- Biosynthesis of terpenoids and steroids
- Citrate cycle (TCA cycle)
- Metabolic pathways
- Oxidative phosphorylation

Disease

- Abdominal Neoplasms
- Adrenal Gland Neoplasms
- Bone Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Carotid Body Tumor
- Diabetes Mellitus

- Edema
- Genetic Predisposition to Disease
- Glomus Jugulare Tumor
- Glomus Tumor
- Hamartoma Syndrome
- Head and Neck Neoplasms
- Hippel-Lindau Disease
- Infertility
- Kidney Neoplasms
- Lymphatic Metastasis
- Multiple endocrine neoplasia
- Multiple Endocrine Neoplasia Type 2a
- Narcolepsy
- Neoplasms
- Neurofibromatosis
- Paraganglioma
- Pheochromocytoma
- Prostatic Neoplasms
- Syndrome
- Thoracic Neoplasms
- Thyroid Neoplasms
- Tobacco Use Disorder
- von Hippel-Lindau Disease
- Von Hippel-Lindau syndrome