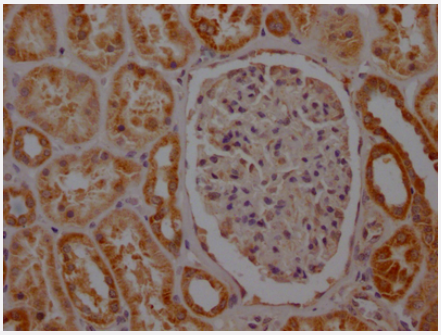
RecomAb™

SDHB recombinant monoclonal antibody, clone 7D12

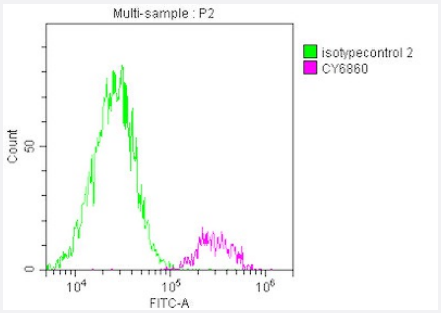
Catalog # RAB04086 Size 100 uL

Applications



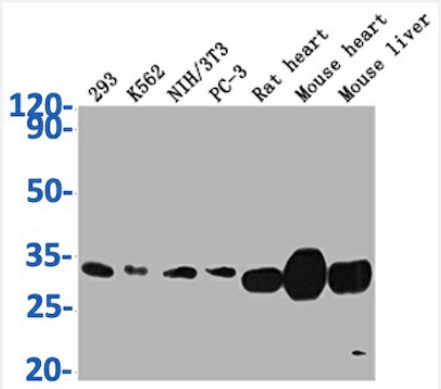
Immunohistochemistry

Immunohistochemistry image of SDHB recombinant monoclonal antibody, clone 7D12 diluted at 1:100 and staining in paraffin-embedded human kidney tissue performed on a Leica BondTM system.



Flow Cytometry

Overlay histogram showing 293 cells stained with SDHB recombinant monoclonal antibody, clone 7D12 (red line) at 1:50.



Western Blot

Western Blot analysis of Lane 1: 293 whole cell lysate; Lane 2: K562 whole cell lysate; Lane 3: NIH/3T3 whole cell lysate; Lane 4: PC-3 whole cell lysate; Lane 5: Rat heart tissue; Lane 6: Mouse heart tissue; Lane 7: Mouse liver tissue.

Specification

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Product Description	Rabbit recombinant monoclonal antibody raised against human, mouse and rat SDHB.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to full length human SDHB.
Reactivity	Human, Mouse, Rat
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Flow Cytometry (1:20-1:200) Immunohistochemistry (1:50-1:200) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at -20 °C or -80 °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

- Immunohistochemistry

  Immunohistochemistry image of SDHB recombinant monoclonal antibody, clone 7D12 diluted at 1:100 and staining in paraffin-embedded human kidney tissue performed on a Leica BondTM system.

- Flow Cytometry

  Overlay histogram showing 293 cells stained with SDHB recombinant monoclonal antibody, clone 7D12 (red line) at 1:50.

- Enzyme-linked Immunoabsorbent Assay

- Western Blot

  Western Blot analysis of Lane 1: 293 whole cell lysate; Lane 2: K562 whole cell lysate; Lane 3: NIH/3T3 whole cell lysate; Lane 4: PC-3 whole cell lysate; Lane 5: Rat heart tissue; Lane 6: Mouse heart tissue; Lane 7: Mouse liver tissue.

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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, carri es 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 c ontains three cysteine-rich clusters which may comprise the iron-sulfur centers of the enzyme. Spo radic and familial mutations in this gene result in paragangliomas and pheochromocytoma, and s upport 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

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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

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- Prostatic Neoplasms
- Syndrome
- Thoracic Neoplasms
- Thyroid Neoplasms
- Tobacco Use Disorder
- von Hippel-Lindau Disease
- Von Hippel-Lindau syndrome

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