

Full-Length

# SDHC (Human) Recombinant Protein (P01)

Catalog # H00006391-P01

Size 25 ug, 10 ug

## Applications



## Specification

|                               |                                                                                                                                                                                |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description           | Human SDHC full-length ORF ( AAH33626, 1 a.a. - 169 a.a.) recombinant protein with GST-tag at N-terminal.                                                                      |
| Sequence                      | MAALLLRHVGRHCLRAHFSPQLCIRNAVPLGTTAKEEMERFWNKNIGSNRPLSPHITYSWSLPMA<br>MSICHRGTGIALSAGVSLFGMSALLPGNFESYLELVKSLCLGPALHTAKFALVFPLMYHTWNGIR<br>HLMWDLGKGLKIPQLYQSGVVVLVLTVLSSMGLAAM |
| Host                          | Wheat Germ (in vitro)                                                                                                                                                          |
| Theoretical MW (kDa)          | 44.33                                                                                                                                                                          |
| Interspecies Antigen Sequence | Mouse (80); Rat (82)                                                                                                                                                           |
| Preparation Method            | <a href="#">in vitro wheat germ expression system</a>                                                                                                                          |
| Purification                  | Glutathione Sepharose 4 Fast Flow                                                                                                                                              |
| Quality Control Testing       | 12.5% SDS-PAGE Stained with Coomassie Blue.                                                                                                                                    |
| Storage Buffer                | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                       |
| Storage Instruction           | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                                                                                                |

## Note

Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — SDHC

Entrez GeneID [6391](#)

GeneBank Accession# [BC033626](#)

Protein Accession# [AAH33626](#)

Gene Name SDHC

Gene Alias CYB560, CYBL, PGL3, QPS1, SDH3

Gene Description succinate dehydrogenase complex, subunit C, integral membrane protein, 15kDa

Omim ID [602413 605373](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** This gene encodes one of four nuclear-encoded subunits that comprise succinate dehydrogenase, also known as mitochondrial complex II, a key enzyme complex of the tricarboxylic acid cycle and aerobic respiratory chains of mitochondria. The encoded protein is one of two integral membrane proteins that anchor other subunits of the complex, which form the catalytic core, to the inner mitochondrial membrane. Several related pseudogenes are located in different genomic regions. Mutations in this gene have been associated with paragangliomas. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq]

**Other Designations** OTTHUMP00000032375|cytochrome B large subunit of complex II|integral membrane protein CII-3|integral membrane protein CII-3b|succinate dehydrogenase complex, subunit C|succinate dehydrogenase cytochrome b560 subunit|succinate-ubiquinone oxidoreductase cy

## 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

- [Adrenal Gland Neoplasms](#)
- [Atrophy](#)
- [Bone Neoplasms](#)
- [Carcinoma](#)
- [Carotid Body Tumor](#)
- [Genetic Predisposition to Disease](#)
- [Glomus Jugulare Tumor](#)
- [Head and Neck Neoplasms](#)
- [Helicobacter Infections](#)
- [Infertility](#)
- [Kidney Neoplasms](#)

- [Lymphatic Metastasis](#)
- [Multiple endocrine neoplasia](#)
- [Multiple Endocrine Neoplasia Type 2a](#)
- [Neurofibromatosis](#)
- [Paranglioma](#)
- [Pheochromocytoma](#)
- [Prostatic Neoplasms](#)
- [Stomach Neoplasms](#)
- [Thyroid Neoplasms](#)
- [von Hippel-Lindau Disease](#)
- [Von Hippel-Lindau syndrome](#)