abcam

Product datasheet

Recombinant Human SDHA protein (His tag) ab226453

1 图像

描述

产品名称	重组人SDHA蛋白(His tag)
纯度	> 90 % SDS-PAGE.
表达系统	Escherichia coli
Accession	P31040
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Human
序列	SAKVSDSISAQYPVVDHEFDAVVVGAGGAGLRAAFGLSEAGF NTACVTKL FPTRSHTVAAQGGINAALGNMEEDNWRWHFYDTVKGSDWLGD QDAIHYMT EQAPAAVVELENYGMPFSRTEDGKIYQRAFGGQSLKFGKGGQ AHRCCCVA DRTGHSLLHTLYGRSLRYDTSYFVEYFALDLLMENGECRGVI ALCIEDGS IHRIRAKNTVVATGGYGRTYFSCTSAHTSTGDGTAMITRAGL PCQDLEFV QFHPTGIYGAGCLITEGCRGEGGILINSQGERFMERYAPVAK DLASRDVV SRSMTLEIREGRGCGPEKDHVYLQLHHLPPEQLATRLPGISE TAMIFAGV DVTKEPIPVLPTVHYNMGGIPTNYKGQVLRHVNGQDQIVPGL YACGEAAC ASVHGANRLGANSLLDLVVFGRACALSIEESCRPGDKVPPIK PNAGEESV MNLDKLRFADGSIRTSELRLSMQKSMQNHAAVFRVGSVLQEG CGKISKLY GDLKHLKTFDRGMVWNTDLVETLELQNLMLCALQTIYGAEAR KESRGAHA REDYKVRIDEYDYSKPIQGQQKKPFEEHWRKHTLSYVDVGTG KVTLEYRP VIDKTLNEADCATVPPAIRSY
预测分子量	84 kDa including tags

氨基酸	44 to 664
标签	His tag N-Terminus
额外的序列信息	N-terminal 6xHis-SUMO tag.

技术指标

Our **Abpromise guarantee** covers the use of **ab226453** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	SDS-PAGE
形式	Liquid

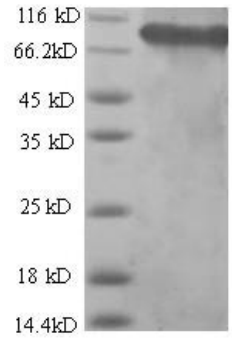
制备和贮存

稳定性和存储	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.2 Constituents: Tris buffer, 50% Glycerol (glycerin, glycerine)

常规信息

功能	Flavoprotein (FP) 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).
通路	Carbohydrate metabolism; tricarboxylic acid cycle; fumarate from succinate (eukaryal route): step 1/1.
疾病相关	Defects in SDHA are a cause of mitochondrial complex Ⅱ deficiency (MT-C2D) [MIM:252011]. A disorder of the mitochondrial respiratory chain with heterogeneous clinical manifestations. Clinical features include psychomotor regression in infants, poor growth with lack of speech development, severe spastic quadriplegia, dystonia, progressive leukoencephalopathy, muscle weakness, exercise intolerance, cardiomyopathy. Some patients manifest Leigh syndrome or Kearns-Sayre syndrome. Defects in SDHA are a cause of Leigh syndrome (LS) [MIM:256000]. LS is a severe disorder characterized by bilaterally symmetrical necrotic lesions in subcortical brain regions. Defects in SDHA are the cause of cardiomyopathy dilated type 1GG (CMD1GG) [MIM:613642]. CMD1GG is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death.
序列相似性	Belongs to the FAD-dependent oxidoreductase 2 family. FRD/SDH subfamily.
细胞定位	Mitochondrion inner membrane.

图片



SDS-PAGE - Recombinant Human SDHA protein (His tag) (ab226453)

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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