



Human Pyruvate Dehydrogenase ComplexE2

Origin:	Recombinant	Cat. No.:	41A082
Concentration:	0.5 mg/mL	Size:	0.1 mg
Source:	<i>Spodopterafrugiperda</i> Sf9	Purity:	>90%
Other names:	PDC-E2	Species:	Human

Description

Expressed in insect Sf9 cells with total 586 AA. Mw:65.27KDa(calculated).
N-terminal 6xHis-tag and TEV cleavage site, extra 25 AA (highlighted).

Recombinant antigen for research use or manufacturing only.

Introduction to the Molecule

The pyruvate dehydrogenase complex (PDC) is a mitochondrial multienzyme complex involved in the maintenance of the cellular redox state. PDC-E2 is the central E2 component of this complex.

The anti-PDC-E2 antibodies belong to the group of Anti-Mitochondrial Antibodies (AMA-M2) and are strongly associated with PBC.

Immunological Function

As an autoantigen, PDC-E2 binds with IgG-type human auto-antibodies.

Amino Acid Sequence

MSYYHHHHHDYDIPTTENLYFQGASLPPHQKVPLPSLSPTMQAGTIARWEKKEGDKINE
GDLIAEVETDKATVGFESLEECYMAKILVAEGTRDVPIGAIICTVGPEDIEAFKNYTLDSSAAP
TPQAAPAPTPAATASPPTPSAQAPGSSYPHPMQVLLPALSPMTMGTVQRWEKKVGEKLSEGD
LLAEIETDKATIGFEVQEEGYLAKILVPEGTRDVPLGTPLCIIVEKEADISAFADYRPTVTDLKPQ
VPPPTPPPVAAPPTPQPLAPTPSAPCPATPAGPKGRVFSPLAKKLAVEKGIDLTQVKGTGPDG
RITKKDIDSFVPSKVAPAPAAVVPPTGPGMAPVPTGVFTDIPISNIRRVIAQRLMQSKQTIPHYL
SIDVNMGEVLLVRKELNILEGRSKISVNDFIKASALACKVPEANSSWMDTVIRQNHVVDVS
VAVSTPAGLITPIVFNAHIKGVETIANDVVS LATKAREGKLQPHEFQGGTFTISNLGMFGIKNFS
AIINPPQACILAIGASEDKLVPADNEKGFDVASMMSVTLSCDHRVVDGAVGAQWLAEFRKYLEK
PITMLL

Applications

Standard ELISA test, line/dot assay and microarray assay with positive/negative sera panels.

Formulation

Liquid at 0.5 mg/mL in storage buffer (20mM Tris, 300mM NaCl, 10% Glycerol, pH8.0).





Storage

Store at -80°C . Avoid repeated freezing/thawing cycles.

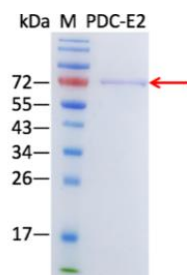
Quality Control Test

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

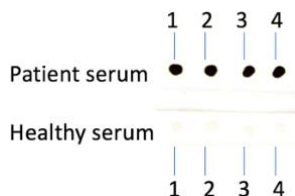
Immunodot analysis to determine functionality of protein.

SDS-PAGE gel



Dot blot assay

Dot blot analysis of PDC-E2



Analysis of serum from healthy subjects and patients. Recombinant autoantigens were utilized in this dot-blot assay for validation

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