

PDHA1 抗原（重组蛋白）

中文名称：PDHA1 抗原（重组蛋白）

英文名称：PDHA1 Antigen (Recombinant Protein)

别名：PDHA; PDHAD; PHE1A; PDHCE1A

储存：冷冻（-20℃）

相关类别：抗原

概述：

Fusion protein corresponding to a region derived from 191-390 amino acids of human PDHA1

技术规格：

Full name:	pyruvate dehydrogenase E1 alpha 1 subunit
Synonyms:	PDHA; PDHAD; PHE1A; PDHCE1A
Swissprot:	P08559
Gene Accession:	BC002406
Purity:	>85%, as determined by Coomassie blue stained SDS-PAGE
Expression system:	Escherichia coli
Tags:	His tag C-Terminus, GST tag N-Terminus
Background:	The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and CO ₂ , and provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle. The PDH complex is composed of multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and lipoamide dehydrogenase (E3).

The E1 enzyme is a heterotetramer of two alpha and two beta subunits. This gene encodes the E1 alpha 1 subunit containing the E1 active site, and plays a key role in the function of the PDH complex. Mutations in this gene are associated with pyruvate dehydrogenase E1-alpha deficiency and X-linked Leigh syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.