

Datasheet for 009-001-S86S**PDHA1 protein Substrate-HIS Epitope****Overview**

Description:	PDHA1 recombinant protein Substrate-HIS Epitope - 009-001-S86S
Item No.:	009-001-S86S
Size:	20 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	PDHA1 pyruvate dehydrogenase (lipoamide) alpha 1 is a member of the pyruvate dehydrogenase (PDH) complex. PDHA1 is a nuclear-encoded mitochondrial multienzyme complex which catalyzes the overall conversion of pyruvate to acetyl-CoA and CO ₂ (2), and provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle. PDHA1 plays a critical role in the brain that usually obtains all of its energy from the aerobic oxidation of glucose (1). Mutations in the PDHA1 are associated with pyruvate dehydrogenase E1-alpha deficiency and X-linked Leigh syndrome (2). PDHA1 Protein is ideal for investigators involved in Signaling Reagents, Protein Substrates, Apoptosis/Autophagy, Inflammation, Metabolic Disorder, and Ser/Thr Kinases research.
Synonyms:	PDHA, PDHCE1A, PHE1A, Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial, PDHE1-A type I, PDHA1, PHE1A
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	PDHA1
Purity/Specificity:	Recombinant human PDHA1 (30-390) was expressed in E. coli cells using an N-Terminal his epitope. The purity was determined to be >85% by densitometry.
Relevant Links:	• NCBI - NM_000284

Application Details

Application Note:	PDHA1 Protein is stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol. PDHA1 Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~47kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.2 µg/µL
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store product at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.

