

Product datasheet

Recombinant Human COASY protein ab164267

1 Image

Overview

Product name	Recombinant Human COASY protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Wheat germ
Amino Acid Sequence	
Species	Human
Sequence	MLGNLLRPPYERPELPTCLYVIGLTGISGSGKSSIAQRL KGLGAFVIDSD HLGHRAYAPGGPAYQPVVEAFGTDILHKDGIINRKVLG SRVFGNKKQLKI LTDIMWPIAKLAREEMDRAVAEGKRV/CVIDAAVLLEA GWQNLVHEVWTA VIPETEAVRRIVERDGLSEAAAQSRLQSQMSGQQLVE QSHVVLSTLWEPH ITQRQVEKAWALLQKRIPKTHQALD
Amino acids	1 to 225
Tags	proprietary tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab164267** in the following tested applications.

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

Applications	ELISA Western blot
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 mg/ml.

Preparation and Storage

Stability and Storage

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function

Bifunctional enzyme that catalyzes the fourth and fifth sequential steps of CoA biosynthetic pathway. The fourth reaction is catalyzed by the phosphopantetheine adenylyltransferase, coded by the coaD domain; the fifth reaction is catalyzed by the dephospho-CoA kinase, coded by the coaE domain. May act as a point of CoA biosynthesis regulation.

Tissue specificity

Expressed in all tissues examined including brain, heart, skeletal muscle, colon, thymus, spleen, kidney, liver, small intestine, placenta, lung and peripheral blood leukocyte. Lowest expression in peripheral blood leukocytes and highest in kidney and liver. Isoform 2 is expressed mainly in the brain.

Pathway

Cofactor biosynthesis; coenzyme A biosynthesis; CoA from (R)-pantothenate: step 4/5.
Cofactor biosynthesis; coenzyme A biosynthesis; CoA from (R)-pantothenate: step 5/5.

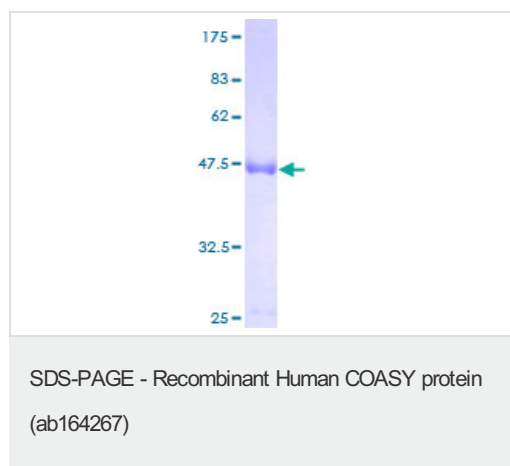
Sequence similarities

In the central section; belongs to the eukaryotic coaD family.
Contains 1 DPCK (dephospho-CoA kinase) domain.

Cellular localization

Cytoplasm.

Images



ab164267 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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