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Datasheet for ABIN2714034 HOGA1 Protein (Transcript Variant 1) (Myc-DYKDDDDK Tag)



Overview

Image

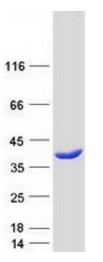
Quantity:	20 µg
Target:	HOGA1
Protein Characteristics:	Transcript Variant 1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HOGA1 protein is labelled with Myc-DYKDDDDK Tag.
Application:	Antibody Production (AbP), Standard (STD)
Product Details	
Characteristics:	 Recombinant human Chromosome 10 open reading frame 65 (C10orf65), transcript variant 1 (transcript variant 1) protein expressed in HEK293 cells. Produced with end-sequenced ORF clone
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining
Target Details	
Target:	HOGA1
Alternative Name:	Chromosome 10 Open Reading Frame 65 (c10orf65) (HOGA1 Products)

Background: The authors of PMID:20797690 cloned this gene while searching for genes in a region of chromosome 10 linked to primary hyperoxalurea type III. They noted that even though the encoded protein has been described as a mitochondrial dihydrodipicolinate synthase-like

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	enzyme, it shares little homology with E. coli dihydrodipicolinate synthase (Dhdps), particularly
	in the putative substrate-binding region. Moreover, neither lysine biosynthesis nor sialic acid
	metabolism, for which Dhdps is responsible, occurs in vertebrate mitochondria. They propose
	that this gene encodes mitochondrial 4-hydroxyl-2-oxoglutarate aldolase (EC 4.1.3.16), which
	catalyzes the final step in the metabolic pathway of hydroxyproline, releasing glyoxylate and
	pyruvate. This gene is predominantly expressed in the liver and kidney, and mutations in this
	gene are found in patients with primary hyperoxalurea type III. Alternatively spliced transcript
	variants encoding different isoforms have been noted for this gene.
Molecular Weight:	35.1 kDa
NCBI Accession:	NP_612422
Pathways:	Monocarboxylic Acid Catabolic Process
Application Details	
Application Notes:	Recombinant human proteins can be used for:
	Native antigens for optimized antibody production
	Positive controls in ELISA and other antibody assays
Comment:	The tag is located at the C-terminal.
Restrictions:	For Research Use only
Handling	
Concentration:	50 μg/mL
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.
Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze
	immediately. Only 2-3 freeze thaw cycles are recommended.

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Western Blotting

Image 1. Validation with Western Blot

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