Recombinant Human ALAS1 293 Cell Lysate

Cat. No. ALAS1-8925HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for aminolevulinate, delta-, synthase 1 (ALAS1), transcript variant 2 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	ALAS1 aminolevulinate, delta-, synthase 1 [Homo sapiens]
Official Symbol	ALAS1
Synonyms	ALAS1; aminolevulinate, delta-, synthase 1; ALAS, ALAS3; 5-aminolevulinate synthase, nonspecific, mitochondrial; ALAS-H; delta-ALA synthase 1; migration-inducing protein 4; 5-aminolevulinic acid synthase 1; delta-aminolevulinate synthase 1; ALAS; MIG4; ALAS3; ALASH;
Gene ID	211
mRNA Refseq	NM_199166
Protein Refseq	NP_954635
MIM	125290
UniProt ID	P13196
Chromosome Location	3p21
Pathway	FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Glycine, serine and threonine metabolism, organism-specific biosystem; Glycine,

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	serine and threonine metabolism, conserved biosystem; Heme Biosynthesis, organism-specific biosystem; Heme biosynthesis, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;
Function	5-aminolevulinate synthase activity; pyridoxal phosphate binding; transferase activity, transferring acyl groups; transferase activity, transferring nitrogenous groups;

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