Recombinant Human FXN 293 Cell Lysate

Cat. No. FXN-6108HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for frataxin (FXN), nuclear gene encoding mitochondrial protein, transcript variant 1 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.

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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	FXN frataxin [Homo sapiens]
Official Symbol	FXN
Synonyms	FXN; frataxin; FRDA, Friedreich ataxia; frataxin, mitochondrial; CyaY; FA; FARR; X25; Friedreich ataxia protein; FRDA; MGC57199;
Gene ID	2395
mRNA Refseq	NM_000144
Protein Refseq	NP_000135
MIM	606829
UniProt ID	Q16595
Chromosome Location	9q21.11
Pathway	HIF-2-alpha transcription factor network, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; Mitochondrial Protein Import, organism-specific biosystem;
Function	2 iron, 2 sulfur cluster binding; enzyme binding; ferric iron binding; ferrous iron

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	binding; ferroxidase activity; iron chaperone activity; iron-sulfur cluster binding; metal ion binding; protein binding;

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