Human POLG Knockdown Cell Lysate

Cat. No. POLG-509HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated POLG Knockdown HT-1080 Cell Lysate
Species	Human
Source	HT-1080
Description	Mitochondrial DNA polymerase is heterotrimeric, consisting of a homodimer of accessory subunits plus a catalytic subunit. The protein encoded by this gene is the catalytic subunit of mitochondrial DNA polymerase. The encoded protein contains a polyglutamine tract near its N-terminus that may be polymorphic. Defects in this gene are a cause of progressive external ophthalmoplegia with mitochondrial DNA deletions 1 (PEOA1), sensory ataxic neuropathy dysarthria and ophthalmoparesis (SANDO), Alpers-Huttenlocher syndrome (AHS), and mitochondrial neurogastrointestinal encephalopathy syndrome (MNGIE). Two transcript variants encoding the same protein have been found for this gene.
Form	Cell-Tissue Lysis buffer
Molecular Mass	140 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HT-1080 cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.

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

Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HT-1080 cell lysate 1 vial of 100 µg POLG KD HT-1080 cell lysate
Protein Families	Druggable Genome
Protein Pathways	Metabolic pathways
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	POLG polymerase (DNA directed), gamma [Homo sapiens (human)]
Official Symbol	POLG
Synonyms	POLG; polymerase (DNA directed), gamma; DNA polymerase subunit gamma-1; POLG1; POLGA; PolG-alpha; PolG, catalytic subunit; mitochondrial DNA polymerase catalytic subunit; PEO; MDP1; SCAE; MIRAS; SANDO; MTDPS4A; MTDPS4B; FLJ27114;
Gene ID	5428
mRNA Refseq	NM_001126131
Protein Refseq	NP_001119603

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MIM	174763
UniProt ID	P54098

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