

Recombinant Human HSPA9 293 Cell Lysate

Cat. No. HSPA9-5352HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for heat shock 70kDa protein 9 (mortalin) (HSPA9), nuclear gene encoding mitochondrial protein 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

HSPA9 heat shock 70kDa protein 9 (mortalin) [Homo sapiens]

Official Symbol

HSPA9

Synonyms

HSPA9; heat shock 70kDa protein 9 (mortalin); heat shock 70kDa protein 9B (mortalin 2) , HSPA9B; stress-70 protein, mitochondrial; GRP75; mot 2; mthsp75; PBP74; mortalin-2; p66-mortalin; mortalin, perinuclear; heat shock 70kD protein 9B; peptide-binding protein 74; 75 kDa glucose-regulated protein; CSA; MOT; MOT2; GRP-75; HSPA9B; MTHSP75; MGC4500;

Gene ID

3313

mRNA Refseq

NM_004134

Protein Refseq

NP_004125

MIM

600548

UniProt ID

P38646

**Chromosome
Location**

5q31.1

Pathway

Metabolism of proteins, organism-specific biosystem; Mitochondrial Protein Import, organism-specific biosystem; RNA degradation, organism-specific biosystem; RNA

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degradation, conserved biosystem; Tuberculosis, organism-specific biosystem;
Tuberculosis, conserved biosystem;

Function

ATP binding; enzyme binding; nucleotide binding; protein binding; unfolded protein
binding;

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