Recombinant Human HSPA2 293 Cell Lysate

Cat. No. HSPA2-5355HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for heat shock 70kDa protein 2 (HSPA2) 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	HSPA2 heat shock 70kDa protein 2 [Homo sapiens]
Official Symbol	HSPA2
Synonyms	HSPA2; heat shock 70kDa protein 2; heat shock 70kD protein 2; heat shock-related 70 kDa protein 2; HSP70-2; HSP70-3;
Gene ID	3306
mRNA Refseq	NM_021979
Protein Refseq	NP_068814
MIM	140560
UniProt ID	P54652
Chromosome Location	14q23
Pathway	Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Cell Cycle, organism-specific biosystem; Chromosome Maintenance, organism-specific biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; Influenza A, organism-specific biosystem;

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Function	ATP binding; glycolipid binding; nucleotide binding; protein binding; unfolded protein binding;

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