Recombinant Human MOCS2 293 Cell Lysate

Cat. No. MOCS2-4261HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for molybdenum cofactor synthesis 2 (MOCS2), 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	MOCS2 molybdenum cofactor synthesis 2 [Homo sapiens]
Official Symbol	MOCS2
Synonyms	MOCS2; molybdenum cofactor synthesis 2; molybdopterin synthase catalytic subunit; MOCO1; MOCO1-A; MOCO1-B; MPT synthase large subunit; sulfur carrier protein MOCS2A; molybdopterin-synthase large subunit; molybdopterin-synthase small subunit; molybdenum cofactor synthesis protein 2A; molybdenum cofactor synthesis protein 2B; molybdenum cofactor biosynthesis protein E; molybdopterin synthase sulfur carrier subunit; molybdenum cofactor synthesis protein 2 large subunit; molybdenum cofactor synthesis protein 2 small subunit; MPTS; MCBPE; MOCS2A; MOCS2B;
Gene ID	4338
mRNA Refseq	NM_176806
Protein Refseq	NP_789776
MIM	603708
UniProt ID	O96007
Chromosome Location	5q11

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Pathway	Folate biosynthesis, organism-specific biosystem; Folate biosynthesis, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of vitamins and cofactors, organism-specific biosystem; Metabolism of water-soluble vitamins and cofactors, organism-specific biosystem; Molybdenum cofactor biosynthesis, organism-specific biosystem;
Function	Mo-molybdopterin synthase activity; contributes_to Mo-molybdopterin synthase activity; Mo-molybdopterin synthase activity; identical protein binding; nucleotide binding; transferase activity;

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