Recombinant Human FUS 293 Cell Lysate

Cat. No. FUS-6118HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for fused in sarcoma (FUS), 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	FUS fused in sarcoma [Homo sapiens]
Official Symbol	FUS
Synonyms	FUS; fused in sarcoma; ALS6, amyotrophic lateral sclerosis 6 , fusion (involved in t(12;16) in malignant liposarcoma) , fusion, derived from t(12;16) malignant liposarcoma; RNA-binding protein FUS; FUS1; heterogeneous nuclear ribonucleoprotein P2; hnRNP P2; TLS; translocated in liposarcoma; oncogene FUS; oncogene TLS; fus-like protein; 75 kDa DNA-pairing protein; fusion gene in myxoid liposarcoma; translocated in liposarcoma protein; ALS6; POMP75; HNRNPP2;
Gene ID	2521
mRNA Refseq	NM_001170634
Protein Refseq	NP_001164105
MIM	137070
UniProt ID	P35637
Chromosome Location	16p11.2
Pathway	Gene Expression, organism-specific biosystem; Processing of Capped Intron-

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	Containing Pre-mRNA, organism-specific biosystem; Transcriptional misregulation in cancer, organism-specific biosystem; Transcriptional misregulation in cancer, conserved biosystem; mRNA Splicing, organism-specific biosystem; mRNA Splicing - Major Pathway, organism-specific biosystem; mRNA processing, organism-specific biosystem;
Function	DNA binding; RNA binding; metal ion binding; nucleotide binding; protein binding; zinc ion binding;

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