

Recombinant Human JAK1 293 Cell Lysate

Cat. No. JAK1-5107HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for Janus kinase 1 (JAK1) 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.
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.

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GENE INFORMATION

Gene Name [JAK1 Janus kinase 1 \[Homo sapiens \]](#)

Official Symbol [JAK1](#)

Synonyms [JAK1](#); [Janus kinase 1](#); [JAK1B](#); [tyrosine-protein kinase JAK1](#); [JAK1A](#); [JTK3](#);

Gene ID [3716](#)

mRNA Refseq [NM_002227](#)

Protein Refseq [NP_002218](#)

MIM [147795](#)

UniProt ID [P23458](#)

Chromosome Location [1p32.3-p31.3](#)

Pathway [Antiviral mechanism by IFN-stimulated genes, organism-specific biosystem](#); [Cytokine Signaling in Immune system, organism-specific biosystem](#); [EGFR1 Signaling Pathway, organism-specific biosystem](#); [HTLV-I infection, organism-specific biosystem](#); [HTLV-I infection, conserved biosystem](#); [Hepatitis C, organism-specific biosystem](#); [Hepatitis C, conserved biosystem](#);

Function [ATP binding](#); [growth hormone receptor binding](#); [non-membrane spanning protein tyrosine kinase activity](#); [nucleotide binding](#); [protein binding](#); [protein tyrosine kinase activity](#); [protein tyrosine kinase activity](#);

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