

Recombinant Human KIF4A 293 Cell Lysate

Cat. No. KIF4A-4944HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for kinesin family member 4A (KIF4A) 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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	KIF4A kinesin family member 4A [Homo sapiens]
Official Symbol	KIF4A
Synonyms	KIF4A; kinesin family member 4A; chromosome-associated kinesin KIF4A; chromokinesin; FLJ12530; FLJ12655; FLJ14204; FLJ20631; HSA271784; KIF4; KIF4 G1; chromokinesin-A; KIF4G1;
Gene ID	24137
mRNA Refseq	NM_012310
Protein Refseq	NP_036442
MIM	300521
UniProt ID	O95239
Chromosome Location	Xq13.1
Pathway	Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Factors involved in megakaryocyte development and platelet production, organism-specific biosystem; Hemostasis, organism-specific biosystem; Kinesins, organism-specific biosystem; L1CAM interactions, organism-specific biosystem; Recycling pathway of L1, organism-specific biosystem;

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Function

ATP binding; DNA binding; microtubule motor activity; nucleotide binding;

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