

Recombinant Human FKBP1A 293 Cell Lysate

Cat. No. FKBP1A-6210HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for FK506 binding protein 1A, 12kDa (FKBP1A), transcript variant 12A 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 FKBP1A FK506 binding protein 1A, 12kDa [Homo sapiens]

Official Symbol FKBP1A

Synonyms FKBP1A; FK506 binding protein 1A, 12kDa; FK506 binding protein 1A (12kD) , FKBP1; peptidyl-prolyl cis-trans isomerase FKBP1A; FKBP 12; FKBP12; FKBP12C; PKC12; PPIASE; rotamase; 12 kDa FKBP; calstabin-1; FKBP12-Exip3; PPIase FKBP1A; immunophilin FKBP12; FK506 binding protein12; FK506-binding protein 1; FK506-binding protein 12; 12 kDa FK506-binding protein; protein kinase C inhibitor 2; FK506-binding protein 1A (12kD); FK506-binding protein, T-cell, 12-kD; FKBP1; PKC12; FKBP-12; FKBP-1A;

Gene ID 2280

mRNA Refseq NM_054014

Protein Refseq NP_463460

MIM 186945

UniProt ID P62942

Chromosome Location 20p13

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Pathway

ALK1 pathway, organism-specific biosystem; ALK1 signaling events, organism-specific biosystem; ALK2 signaling events, organism-specific biosystem; Alpha-synuclein signaling, organism-specific biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Calcium signaling in the CD4+ TCR pathway, organism-specific biosystem; Role of Calcineurin-dependent NFAT signaling in lymphocytes, organism-specific biosystem;

Function

FK506 binding; FK506 binding; SMAD binding; activin binding; isomerase activity; macrolide binding; peptidyl-prolyl cis-trans isomerase activity; peptidyl-prolyl cis-trans isomerase activity; peptidyl-prolyl cis-trans isomerase activity; protein binding; contributes_to ryanodine-sensitive calcium-release channel activity; signal transducer activity; transforming growth factor beta receptor binding; contributes_to transforming growth factor beta-activated receptor activity; type I transforming growth factor beta receptor binding;