

Recombinant Human FKBP1A, 12kDa, GST-tagged

Cat. No. FKBP1A-4845H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human FKBP1A was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
Description	FKBP1A is a member of the immunophilin protein family which plays a role in immunoregulation and basic cellular processes involving protein folding and trafficking. FKBP1A is a cis-trans prolyl isomerase that binds the immunosuppressants FK506 and Rapamycin. FKBP1A interacts with various type I receptors, including the TGF-beta type I receptor and competitive binding assays show that the type I receptor may be a natural ligand for FKBP1A. FKBP1A-deficient mice have normal skeletal muscle but show severe dilated cardiomyopathy and ventricular septal defects that mimic a human congenital heart disorder.
Applications	Western Blot
Molecular Weight	38.3 kDa
Expression System	E.coli
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.

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Purity	> 95 %
Concentration	0.2 ug/ul
Sequences	Full length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	ALK1 pathway; ALK2 signaling events; Alpha-synuclein signaling; Calcium Regulation in the Cardiac Cell
Full Length	Full L.

GENE INFORMATION

Gene Name	FKBP1A FK506 binding protein 1A, 12kDa [Homo sapiens]
Official Symbol	FKBP1A
Synonyms	FKBP1A; FK506 binding protein 1A, 12kDa; FKBP1; PKC12; FKBP12; PPIASE; FKBP12C; FK506-binding protein 1A (12kD); Peptidyl-prolyl cis-trans isomerase FKBP1A; PPIase FKBP1A; EC 5.2.1.8; FK506-binding protein 1A; FKBP-1A; Immunophilin FKBP12; 12 kDa FKBP; FKBP-12; OTTHUMP00000029977; OTTHUMP00000029978; OTTHUMP00000029979; OTTHUMP00000029980; Rotamase; rotamase; FK506-binding protein 1; FK506-binding protein 12; FK506-binding protein, T-cell, 12-kD; peptidyl-prolyl cis-trans isomerase; protein kinase C inhibitor 2; EC=5.2.1.8; 12 kDa FK506-binding protein; FK506-binding protein, T-cell, 12-Kd

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Gene ID	2280
mRNA Refseq	NM_000801
Protein Refseq	NP_000792
MIM	186945
UniProt ID	P62942
Chromosome Location	20p13
Function	FK506 binding; SMAD binding; activin binding; isomerase activity; peptidyl-prolyl cis-trans isomerase activity; ryanodine-sensitive calcium-release channel activity; signal transducer activity; transforming growth factor beta receptor activity; type I transforming growth factor beta receptor binding
PDBrendering based on 1a7x.	