



Human FKBP1A peptide (DAG-P1587)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

The protein encoded by this gene is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. The protein is a cis-trans prolyl isomerase that binds the immunosuppressants FK506 and rapamycin. It interacts with several intracellular signal transduction proteins including type I TGF-beta receptor. It also interacts with multiple intracellular calcium release channels, and coordinates multi-protein complex formation of the tetrameric skeletal muscle ryanodine receptor. In mouse, deletion of this homologous gene causes congenital heart disorder known as noncompaction of left ventricular myocardium. Multiple alternatively spliced variants, encoding the same protein, have been identified. The human genome contains five pseudogenes related to this gene, at least one of which is transcribed. [provided by RefSeq, Sep 2008]

Conjugate

Unconjugated

Sequence Similarities

Belongs to the FKBP-type PPIase family. FKBP1 subfamily. Contains 1 PPIase FKBP-type domain.

Format

Liquid

Preservative

None

Storage

Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name

[FKBP1A FK506 binding protein 1A, 12kDa \[Homo sapiens \(human\) \]](#)

Official Symbol

FKBP1A

Synonyms

FKBP1A; FK506 binding protein 1A, 12kDa; FKBP1; PKC12; PKC12; FKBP12; PPIASE; FKBP-

12; FKBP-1A; peptidyl-prolyl cis-trans isomerase FKBP1A; rotamase; 12 kDa FKBP; calstabin 1; calstabin-1; FKBP12-Exip3; PPlase 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;

Entrez Gene ID	2280
mRNA Refseq	NM_000801.4
Protein Refseq	NP_000792.1
UniProt ID	P62942
Chromosome Location	20p13
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; Disease, organism-specific biosystem; Integrated Pancreatic Cancer Pathway, organism-specific biosystem; Loss of Function of SMAD2/3 in Cancer, organism-spe
Function	FK506 binding; FK506 binding; SMAD binding; activin binding; NOT calcium channel inhibitor activity; ion channel binding; macrolide binding; peptidyl-prolyl cis-trans isomerase activity; peptidyl-prolyl cis-trans isomerase activity; protein binding; contr