



Anti-FKBP1A (full length) polyclonal antibody (DPAB-DC999)

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.
Immunogen	FKBP1A (AAH05147, 1 a.a. ~ 108 a.a) full-length recombinant protein with GST tag. The sequence is MGVQVETISPGDGRTPKRGQTCVVHYTGMLEDGKKFDSSRDRNPKFKMLGKQEIRGW EEGVAQMSVGQRAKLTISPDYAYGATGHPGIIPPHATLVFDVELLKLE
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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; 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;
Entrez Gene ID	2280
Protein Refseq	NP_000792
UniProt ID	P62942
Chromosome Location	20p13
Pathway	ALK1 pathway; ALK2 signaling events; Calcium Regulation in the Cardiac Cell; Disease
Function	FK506 binding; SMAD binding; activin binding; NOT calcium channel inhibitor activity
