



Human FKBP4 blocking peptide (CDBP1233)

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

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-FKBP4/FKBP52 antibody
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. This encoded protein is a cis-trans prolyl isomerase that binds to the immunosuppressants FK506 and rapamycin. It has high structural and functional similarity to FK506-binding protein 1A (FKBP1A), but unlike FKBP1A, this protein does not have immunosuppressant activity when complexed with FK506. It interacts with interferon regulatory factor-4 and plays an important role in immunoregulatory gene expression in B and T lymphocytes. This encoded protein is known to associate with phytanoyl-CoA alpha-hydroxylase. It can also associate with two heat shock proteins (hsp90 and hsp70) and thus may play a role in the intracellular trafficking of hetero-oligomeric forms of the steroid hormone receptors. This protein correlates strongly with adeno-associated virus type 2 vectors (AAV) resulting in a significant increase in AAV-mediated transgene expression in human cell lines. Thus this encoded protein is thought to have important implications for the optimal use of AAV vectors in human gene therapy. The human genome contains several non-transcribed pseudogenes similar to this gene. [provided by RefSeq, Sep 2008]
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name	FKBP4 FK506 binding protein 4, 59kDa [Homo sapiens (human)]
Official Symbol	FKBP4
Synonyms	FKBP4; FK506 binding protein 4, 59kDa; HBI; p52; Hsp56; FKBP51; FKBP52; FKBP59; PPIase; peptidyl-prolyl cis-trans isomerase FKBP4; rotamase; HSP binding immunophilin; 51 kDa FK506-binding protein; FK506-binding protein 4 (59kD); T-cell FK506-binding protein, 59kD; peptidylprolyl cis-trans isomerase;
Entrez Gene ID	2288
mRNA Refseq	NM_002014.3
Protein Refseq	NP_002005.1
UniProt ID	Q02790
Chromosome Location	12p13.33
Pathway	Androgen receptor signaling pathway, organism-specific biosystem; Coregulation of Androgen receptor activity, organism-specific biosystem; Estrogen signaling pathway, organism-specific biosystem; Estrogen signaling pathway, conserved biosystem; Glucocorticoid receptor regulatory network, organism-specific biosystem;
Function	ATP binding; FK506 binding; FK506 binding; GTP binding; copper-dependent protein binding; glucocorticoid receptor binding; heat shock protein binding; peptidyl-prolyl cis-trans isomerase activity; peptidyl-prolyl cis-trans isomerase activity; phosphoprotein