



## Human FKBP4 peptide (DAG-P0504)

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. 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]

<b>Specificity</b>	Widely expressed.
<b>Purity</b>	70 - 90% by HPLC.
<b>Conjugate</b>	Unconjugated
<b>Sequence Similarities</b>	Contains 2 PPIase FKBP-type domains.Contains 3 TPR repeats.
<b>Format</b>	Liquid
<b>Preservative</b>	None
<b>Storage</b>	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

<b>Gene Name</b>	<a href="#">FKBP4 FK506 binding protein 4, 59kDa [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	FKBP4
<b>Synonyms</b>	FKBP4; FK506 binding protein 4, 59kDa; HBI; p52; Hsp56; FKBP51; FKBP52; FKBP59; PPlase; 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;
<b>Entrez Gene ID</b>	<a href="#">2288</a>
<b>mRNA Refseq</b>	<a href="#">NM_002014.3</a>
<b>Protein Refseq</b>	<a href="#">NP_002005.1</a>
<b>UniProt ID</b>	Q02790
<b>Chromosome Location</b>	12p13.33
<b>Pathway</b>	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;
<b>Function</b>	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; phosphoprote