

# Recombinant Full Length Human FKBP4 Protein, GST-tagged

Cat. No. FKBP4-4811HF Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Human FKBP4 full-length ORF ( AAH07924.1, 1 a.a. - 459 a.a.) recombinant protein with GST-tag at N-terminal.

**Species** Human

**Source** In Vitro Cell Free System

**ProteinLength** 459 amino acids

**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

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several non-transcribed pseudogenes similar to this gene. [provided by RefSeq]

**Molecular Mass** 76.12 kDa

**AA Sequence**

MTAEEMKATESGAQSAPLPMEGVDISPKQDEGVLKVIKREGTGTEMPMIGDRVFNH  
 YTGWLLDGTKFDSSLDRKDKFSFDLGKGEVIKAWDIAIATMKVGEVCHITCKPEYAY  
 GSAGSPPKIPP NATLVFEVELFEFKGEDLTEEEDGGIIRRIQTRGEGYAKPNEGAIVE  
 VALEGYKDKLFDQRELRFEIGEGENLDLPYGLERAIQRMEKGEHSIVYLKPSYAFG  
 SVGKEKFQIPPNAELKYELHLKSFEKAKESWEMNSEEKLEQSTIVKERGTVYFKEGK  
 YKQALLQYKKIVSWLEYESSFSNEEAQKAQALRLASHLNLAMCHLKLQAFSAAIESC  
 NKALELDSNNEKGLFRRGEAHLAVNDFELARADFQKVLQLYPNNKAAKTQLAVCQQ  
 RIRRQLAREKKLYANMFERLAEEENKAKAEASSGDHPTDTEMKKEEQKSNTAGSQSQ  
 VETEA

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

FKBP4 FK506 binding protein 4, 59kDa [ Homo sapiens ]

**Official Symbol**

FKBP4

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**Synonyms** FKBP4; FK506 binding protein 4, 59kDa; FK506 binding protein 4 (59kD); peptidyl-prolyl cis-trans isomerase FKBP4; FKBP52; FKBP59; rotamase; HSP binding immunophilin; 51 kDa FK506-binding protein; FK506-binding protein 4 (59kD); T-cell FK506-binding protein, 59kD; peptidylprolyl cis-trans isomerase; HBI; p52; Hsp56; FKBP51; PPlase;

**Gene ID** [2288](#)

**mRNA Refseq** [NM\\_002014](#)

**Protein Refseq** [NP\\_002005](#)

**MIM** [600611](#)

**UniProt ID** [Q02790](#)

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