

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

MTAEEMKATESGAQSAPLPMEGVDISPKQDEGVLKVIKREGTGTEMPMIGDRVFVH
 YTGWLLDGTKFDSSLDRKDKFSFDLGKGEVIKAWDIAIATMKVGEVCHITCKPEYAY
 GSAGSPPKIPP NATLVFEVELFEFKGEDLTEEEDGGIIRRIQTRGEGYAKPNEGAI
 VALEGYKDKLFDQRELRFEGEGENLDLPYGLERAIQRMEKGEHSIVYLKPSYAFG
 SVGKEKFQIPPNAELKYELHLKSFEKAKESWEMNSEEKLEQSTIVKERGTVYFKEGK
 YKQALLQYKKIVSWLEYESSFSNEEAQKAQALRLASHNLAMCHLKLQAFSAAIESC
 NKALELDSNNEKGLFRRGEAHLAVNDFELARADFQKVLQLYPNNKAAKTQLAVCQQ
 RIRRQLAREKKLYANMFERLAEEENKAKAEASSGDHPTDTEMKEEQKSNTAGSQSQ
 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; PPIase;
Gene ID	2288
mRNA Refseq	NM_002014
Protein Refseq	NP_002005
MIM	600611
UniProt ID	Q02790

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