

## Product datasheet for **AP17384PU-N**

### **FKBP52 (FKBP4) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	FC, WB
Recommended Dilution:	<b>ELISA:</b> 1/1,000. <b>Western blot:</b> 1/1000. <b>Flow Cytometry:</b> 1/10-1/50.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 186-216 amino acids from the Central region of Human FKBP4.
Specificity:	This antibody detects FKBP4 at Center.
Formulation:	PBS with 0.09% (W/V) Sodium Azide State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	51805 Da
Gene Name:	FK506 binding protein 4
Database Link:	<a href="#">Entrez Gene 2288 Human Q02790</a>



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**Background:**

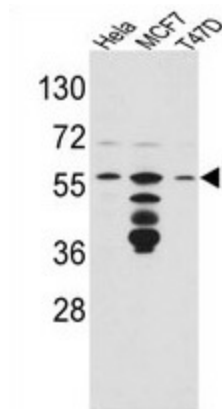
FKBP4 is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. This protein is a cis-trans prolyl isomerase that binds to the immunosuppressants FK506 and rapamycin. It has high structural and functional 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 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 protein is thought to have important implications for the optimal use of AAV vectors in human gene therapy.

**Synonyms:**

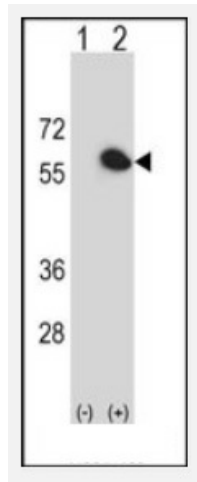
FK506-binding protein 4, FKBP52 protein, FKBP59, p59 protein

**Protein Families:**

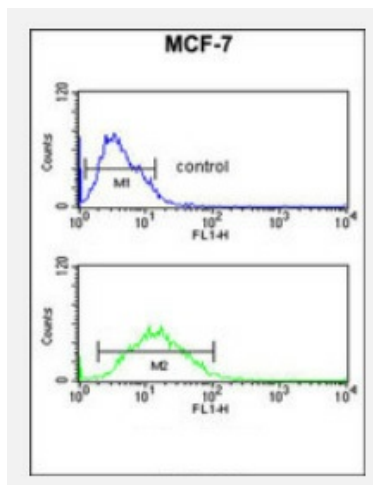
Druggable Genome

**Product images:**

Western blot analysis of FKBP4 Antibody (Center) in HeLa, MCF7, T47D cell line lysates (35 ug/lane). FKBP4 (arrow) was detected using the purified Pab.



Western blot analysis of FKBP4 (arrow) using FKBP4 Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the FKBP4 gene.



Flow cytometric analysis of MCF-7 cells using FKBP4 Antibody (Center) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.