

A5643

Leader in Biomolecular Solutions for Life Science



# FKBP52/FKBP4 Rabbit pAb

Catalog No.: A5643

3 Publications

## Basic Information

**Observed MW**

52kDa

**Calculated MW**

52kDa

**Category**

Polyclonal Antibody

**Applications**

WB,IHC-P,IF/ICC,IP,ELISA

**Cross-Reactivity**

Human,Mouse,Rat

## Background

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.

## Recommended Dilutions

**WB** 1:500 - 1:1000**IHC-P** 1:50 - 1:200**IF/ICC** 1:50 - 1:100**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts  
of whole cells**ELISA** Recommended starting  
concentration is 1  
µg/mL. Please optimize  
the concentration  
based on your specific  
assay requirements.

## Immunogen Information

**Gene ID**

2288

**Swiss Prot**

Q02790

**Immunogen**

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

**Synonyms**

HBI; p52; Hsp56; FKBP51; FKBP52; FKBP59; PPIase; FKBP52/FKBP4

## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

Affinity purification

**Storage**

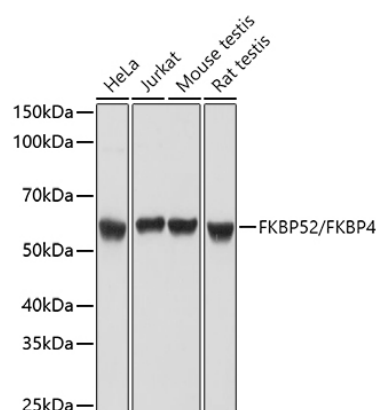
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

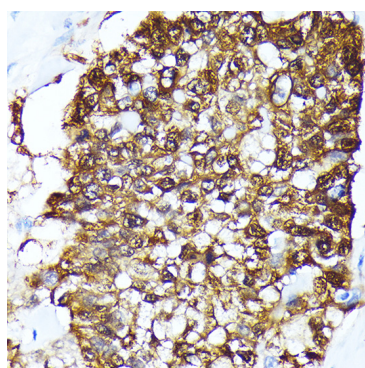
## Contact

[www.abclonal.com](http://www.abclonal.com)

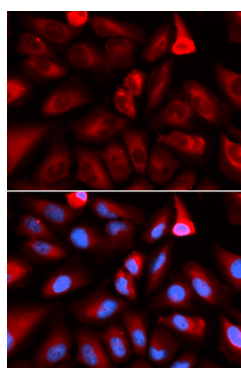
## Validation Data



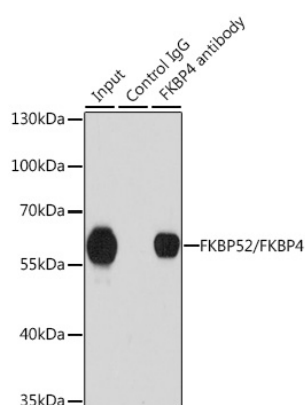
Western blot analysis of various lysates using FKBP52/FKBP4 Rabbit pAb (A5643) at 1:1000 dilution.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 5s.



Immunohistochemistry analysis of paraffin-embedded Human lung cancer using FKBP52/FKBP4 Rabbit pAb (A5643) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunofluorescence analysis of U2OS cells using FKBP52/FKBP4 Rabbit pAb (A5643). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 200 µg extracts of 293T cells using 1 µg FKBP52/FKBP52/FKBP4 antibody (A5643). Western blot was performed from the immunoprecipitate using FKBP52/FKBP52/FKBP4 antibody (A5643) at a dilution of 1:1000.