

FKBP52/FKBP4 Rabbit pAb

Catalog No.: A5643

3 Publications

Basic Information

Observed MW

52kDa

Calculated MW

52kDa

Category

Primary antibody

Applications

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

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

Immunogen Information

Gene ID

2288

Swiss Prot

Q02790

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 220-459 of human FKBP52/FKBP52/FKBP4 (NP_002005.1).

Synonyms

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

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

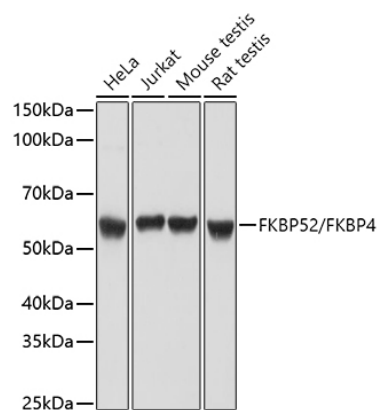
Affinity purification

Storage

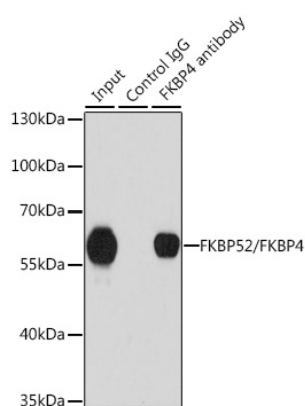
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

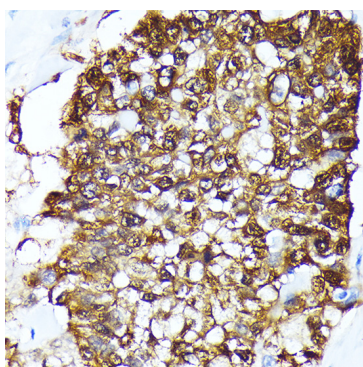
Validation Data



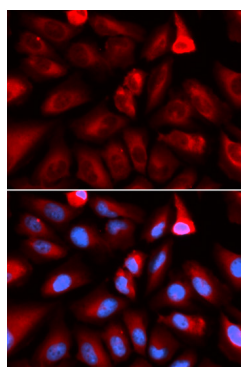
Western blot analysis of various lysates using FKBP52/FKBP4 Rabbit pAb (A5643) at 1:1000 dilution.
 Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates/proteins: 25µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure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



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.



Immunohistochemistry analysis of FKBP52/FKBP4 in paraffin-embedded human lung cancer using FKBP52/FKBP4 Rabbit pAb (A5643) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



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