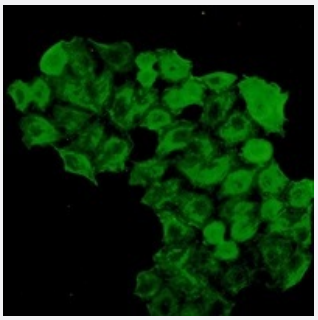
RecomAb™ Sm Size

FKBP4 recombinant monoclonal antibody

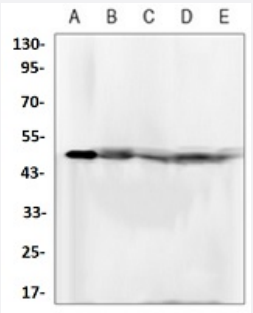
Catalog # RAB09166 Size 50 uL

Applications



Immunofluorescence

Immunofluorescent analysis of HeLa cells with FKBP4 recombinant monoclonal antibody (Cat # RAB09166). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.



Western Blot (Cell lysate)

Western blot analysis of Raw264.7 (A), Jurkat (B), C6 (C), CHOK1 (D), Hela (E) whole cell lysates with FKBP4 recombinant monoclonal antibody (Cat # RAB09166).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human FKBP4.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide of human FKBP52.
Theoretical MW (kDa)	50
Reactivity	Hamster, Human, Mouse, Rat

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Specificity	Recognizes endogenous levels of FKBP4 protein.
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Immunogen affinity chromatography
Isotype	IgG
Recommend Usage	Immunocytochemistry (1:50-1:100) Immunofluorescence (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50mM Tris-Glycine, pH 7.4 (0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunofluorescence

  Immunofluorescent analysis of HeLa cells with FKBP4 recombinant monoclonal antibody (Cat # RAB09166). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

- Western Blot (Cell lysate)

  Western blot analysis of Raw264.7 (A), Jurkat (B), C6 (C), CHOK1 (D), Hela (E) whole cell lysates with FKBP4 recombinant monoclonal antibody (Cat # RAB09166).

Gene Info — FKBP4

Entrez GeneID	2288
Protein Accession#	Q02790
Gene Name	FKBP4
Gene Alias	FKBP52, FKBP59, HBI, Hsp56, PPIase, p52

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Gene Description	FK506 binding protein 4, 59kDa
Omim ID	600611
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	52 kD FK506 binding protein|FK506 binding protein 4 (59kD)|FK506 binding protein 52|FK506-binding protein 4 (59kD)|HSP binding immunophilin|T-cell FK506-binding protein, 59kD|p59 protein|peptidyl|prolyl cis-trans isomerase|rotamase

Disease

- Asthma
- Genetic Predisposition to Disease
- Glaucoma
- Hypospadias
- Syndrome

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