

Anti-FKBP12 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

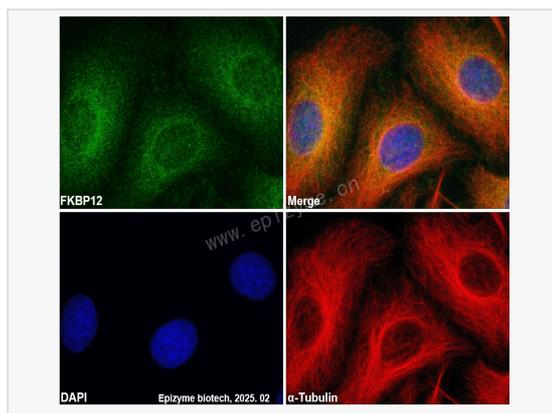
Catalog # R014780

Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:5,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	21M16T26
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human FKBP12
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-FKBP12 Rabbit mAb [21M16T26] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	12 kDa FK506-binding protein, 12 kDa FKBP, Calstabin 1, FK506 binding protein 1, FK506 binding protein 12, FK506 binding protein 1A (12kD), FK506 binding protein 1A 12kDa, FK506 binding protein 1A, FK506 binding protein T cell 12 kD, FK506 binding protein, T cell, 12 kD, FK506 binding protein12, FK506-binding protein 1A, FKBP1A_HUMAN, FKBP 12, FKBP 1A, FKBP-12, FKBP-1A, FKBP1, FKBP12, FKBP12 Exip3, FKBP12C, fkbp1a, Immunophilin FKBP12, Peptidyl prolyl cis trans isomerase, Peptidyl-prolyl cis-trans isomerase FKBP1A, PKC12, PKC12, PPIase, PPIase FKBP1A, Protein kinase C inhibitor 2, Rotamase.
Calculated MW	Calculated MW: 12 kDa; Observed MW: 12 kDa
Uniprot ID	P62942
Gene ID	2280
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. The protein is a cis-trans prolyl isomerase that binds the immunosuppressants FK506 and rapamycin. It interacts with several intracellular signal transduction proteins including type I TGF-beta receptor. It also interacts with multiple intracellular calcium release channels, and coordinates multi-protein complex formation of the tetrameric skeletal muscle ryanodine receptor. In mouse, deletion of this homologous gene causes congenital heart disorder known as noncompaction of left ventricular myocardium. Multiple alternatively spliced variants, encoding the same protein, have been identified. The human genome contains five pseudogenes related to this gene, at least one of which is transcribed. [provided by RefSeq, Sep 2008]
Cellular Location	Cytoplasm.



Immunofluorescence - Anti-FKBP12 Rabbit mAb [21M16T26]

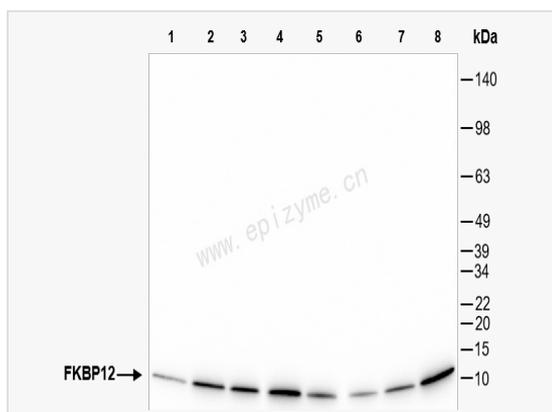
Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R014780 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Western Blot - Anti-FKBP12 Rabbit mAb [21M16T26]

All lanes: R014780 at 1:5,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: T24 (Human bladder cancer epithelial cell) whole cell lysates

Lane 5: Jurkat (Human T lymphocytic leukemia cell) whole cell lysates

Lane 6: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 7: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates

Lane 8: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates

Lysates/proteins at 10 μ g per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 12 kDa

Observed band size: 12 kDa

Developed using the ECL technique (Cat. No. SQ201).