Anti-FKBP12 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014518

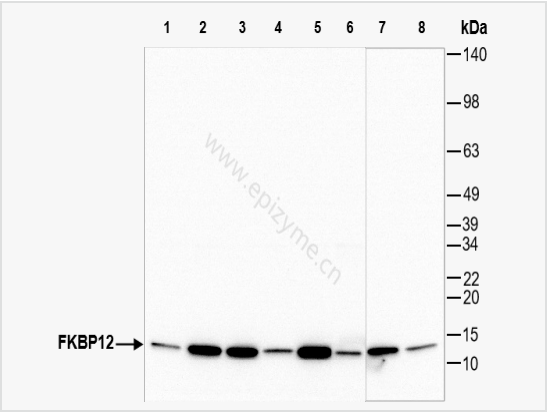
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Rat, Mouse
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	35Q41K33
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 [35Q41K33] is for research use only and not for use in diagnostic or therapeutic procedures.

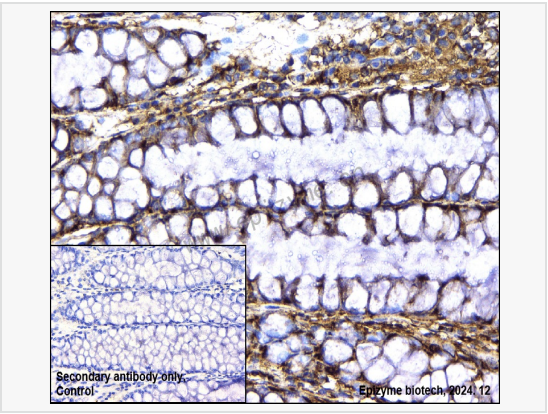
Protein Information

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, FKB1A_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, PKCI2, 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	May play a role in modulation of ryanodine receptor isoform-1 (RYR-1), a component of the calcium release channel of skeletal muscle sarcoplasmic reticulum. There are four molecules of FKBP12 per skeletal muscle RYR. PPIases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides.
Cellular Location	Cytoplasm.

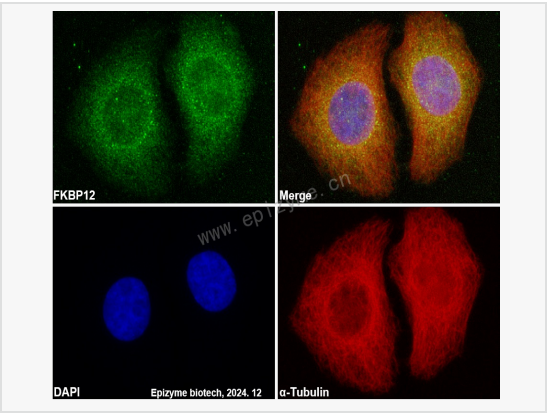
Validation Images



Western Blot - Anti-FKBP12 Rabbit mAb [35Q41K33]
All lanes: R014518 at 1:1,000 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: A431(Human epidermoid teratoma cell line) whole cell lysates
Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 6: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 7: Rat brain whole tissue lysates
Lane 8: Rat heart whole tissue lysates
Lysates/proteins at 10 µg 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).



Immunohistochemistry - Anti-FKBP12 Rabbit mAb [35Q41K33]
Sample: Paraformaldehyde-fixed, paraffin embedded human rectal adenocarcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014518 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-FKBP12 Rabbit mAb [35Q41K33]
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: R014518 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).