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FKBP12 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7756c

Specification

FKBP12 Antibody (Center) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	P62942
Other Accession	Q62658, P62943, P26883, P18203
Reactivity	**Human**
Predicted	**Bovine, Mouse, Rabbit, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**11951**
Antigen Region	**43-74**

FKBP12 Antibody (Center) - Additional Information

Gene ID 2280

Other Names
Peptidyl-prolyl cis-trans isomerase FKBP1A, PPIase FKBP1A, 12 kDa FK506-binding protein, 12 kDa FKBP, FKBP-12, Calstabin-1, FK506-binding protein 1A, FKBP-1A, Immunophilin FKBP12, Rotamase, FKBP1A, FKBP1, FKBP12

Target/Specificity
This FKBP12 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 43-74 amino acids from the Central region of human FKBP12.

Dilution
IHC-P~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
FKBP12 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

FKBP12 Antibody (Center) - Protein Information

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Name FKBP1A

Synonyms FKBP1, FKBP12

Function Keeps in an inactive conformation TGFBR1, the TGF-beta type I serine/threonine kinase receptor, preventing TGF-beta receptor activation in absence of ligand. Recruits SMAD7 to ACVR1B which prevents the association of SMAD2 and SMAD3 with the activin receptor complex, thereby blocking the activin signal. May modulate the RYR1 calcium channel activity. PPIases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides.

Cellular Location
Cytoplasm, cytosol. Sarcoplasmic reticulum membrane {ECO:0000250|UniProtKB:P62943}; Peripheral membrane protein {ECO:0000250|UniProtKB:P62943}; Cytoplasmic side {ECO:0000250|UniProtKB:P62943}

FKBP12 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FKBP12 Antibody (Center) - Images

Western blot analysis of FKBP12 (arrow) using rabbit polyclonal FKBP12 Antibody (Center) (Cat.#AP7756c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the FKBP12 gene (Lane 2) (Origene Technologies).

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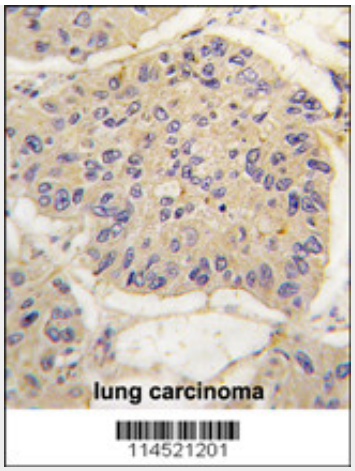

Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with FKBP12 antibody (Center) (Cat.#AP7756c), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

FKBP12 Antibody (Center) - Background

FKBP12 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.

FKBP12 Antibody (Center) - References

Gerard,M., J. Neurochem. 106 (1), 121-133 (2008)
Shor,B., Cancer Res. 68 (8), 2934-2943 (2008)
Jayaraman,T.,J. Biol. Chem. 267 (14), 9474-9477 (1992)