10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# FKBP1A Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21438c

## Product Information

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| **Application** | WB, E |
| **Primary Accession** | P62942 |
| **Reactivity** | Human, Rat, Mouse |
| **Predicted** | Bovine, Canine, Rabbit, Chicken |
| **Host** | Rabbit |
| **Clonality** | polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB49821 |
| **Calculated MW** | 11951 |

## Additional Information

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| **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 FKBP1A antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 34-68 amino acids from the Central region of human FKBP1A. |
| **Dilution** | WB~~1:2000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **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** | FKBP1A Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | FKBP1A |
| **Synonyms** | FKBP1, FKBP12 |

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| **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} |

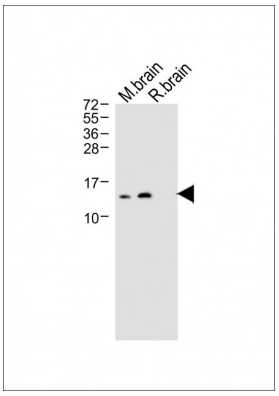
## Background

Keeps in an inactive conformation TGFBR1, the TGF-beta type I serine/threonine kinase receptor, preventing TGF-beta receptor activation in absence of ligand. Recruites 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.

## References


Maki N.,et al.Proc. Natl. Acad. Sci. U.S.A. 87:5440-5443(1990).
Standaert R.F.,et al.Nature 346:671-674(1990).
Dilella A.G.,et al.Biochemistry 30:8512-8517(1991).
Peattie D.A.,et al.Gene 150:251-257(1994).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.


## Images




All lanes : Anti-FKBP1A Antibody (Center) at 1:1000 dilution Lane 1: M. brain whole cell lysate Lane 2: R. brain whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Observed band size : 13kDa Blocking/Dilution buffer: 5% NFDM/TBST.


Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.