

FKBP1A
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8726b

Specification

FKBP1A - Product Information

Application	WB,E
Primary Accession	P62942
Reactivity	Human, Mouse, Rat
Predicted	Human, Mouse, Rat
Host	Mouse
Clonality	monoclonal
Isotype	IgG1, κ
Calculated MW	11951

FKBP1A - Additional Information

Gene ID 2280

Other Names

Peptidyl-prolyl cis-trans isomerase FKBP1A, PPIase FKBP1A, 5.2.1.8, 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 antibody is generated from a mouse immunized with a KLH conjugated synthetic peptide between amino acids from human.

Dilution

WB~~1:4000

Format

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, 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

FKBP1A is for research use only and not for use in diagnostic or therapeutic procedures.

FKBP1A - Protein Information

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

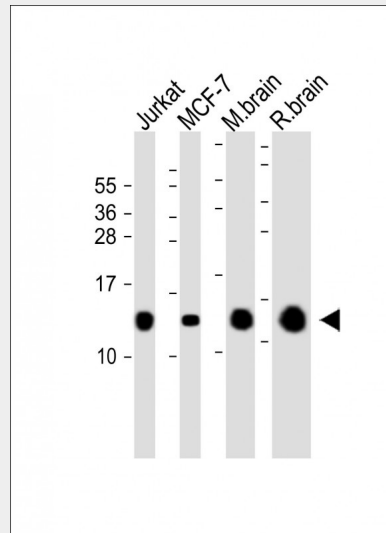
Cytoplasm, cytosol. Sarcoplasmic reticulum membrane {ECO:0000250|UniProtKB:P62943}; Peripheral membrane protein {ECO:0000250|UniProtKB:P62943}; Cytoplasmic side {ECO:0000250|UniProtKB:P62943}

FKBP1A - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

FKBP1A - Images



All lanes : Anti-FKBP1A at 1:4000 dilution Lane 1: Jurkat whole cell lysate Lane 2: MCF-7 whole cell lysate Lane 3: Mouse brain whole tissue lysate Lane 4: Rat brain whole tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 12 kDa Blocking/Dilution buffer: 5% NFDN/TBST.

FKBP1A - 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. 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.

FKBP1A - 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.