

FKBP38 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10503**Specification**

FKBP38 Antibody - Product Information

Application	WB
Primary Accession	O35465
Other Accession	AY225340
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	43529

FKBP38 Antibody - Additional Information**Gene ID** 14232**Application & Usage**

Western blotting (0.5-4 µg/ml). However, the optimal concentrations should be determined individually. Blocking peptide is available separately. The antibody recognizes a ~40 kDa band in samples from human, mouse and rat origins. Reactivity to other species has not been tested.

Other Names

FKBPR38 , FKBP8 , FKBP 8 , FK506 binding protein 8 , FKBP 38

Target/Specificity

FKBP 38

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.2mg/ml) protein A purified rabbit anti-FKBP38 polyclonal antibody in phosphate-buffered saline (PBS) containing 0.1% BSA, 20% glycerol, and 0.02% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

FKBP38 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

FKBP38 Antibody - Protein Information

Name Fkbp8

Synonyms Fkbp38, Sam11

Function

Constitutively inactive PPIase, which becomes active when bound to calmodulin and calcium. Seems to act as a chaperone for BCL2, targets it to the mitochondria and modulates its phosphorylation state. The BCL2/FKBP8/calmodulin/calcium complex probably interferes with the binding of BCL2 to its targets. The active form of FKBP8 may therefore play a role in the regulation of apoptosis (By similarity). Required for normal embryonic development.

Cellular Location

Mitochondrion membrane; Single-pass membrane protein; Cytoplasmic side

Tissue Location

Detected throughout the embryonic body, in caudal neural tube, limbs and head. Detected in adult retina, brain, heart, kidney, liver, pancreas, lung, testis and urinary bladder (at protein level). Detected in adult brain, kidney, liver, testis and trigeminal nerve, and in embryo. Detected at lower levels in lung, spleen, heart and ovary. Widely expressed in forebrain. Detected in the Purkinje cell layer in the cerebellum and in hippocampus neurons

FKBP38 Antibody - 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](#)

FKBP38 Antibody - Images**FKBP38 Antibody - Background**

FK506-binding protein 38 (FKBP38), a member of the immunophilin family, has been implicated to play an important role in apoptosis through its involvement in the mechanism that targets Bcl-2 and Bcl-xL to the outer mitochondrial membrane (OMM). Suppression of endogenous FKBP38 by RNAi or transfection of a mutant FKBP38 missing the transmembrane domain necessary for mitochondrial insertion, resulted in the translocation of Bcl-2 and Bcl-xL from the OMM to the cytosol. It has also been suggested that FKBP38 may play a role in the cross-talk between the Bcl-2 and the Calcineurin/NF-AT apoptosis signaling pathways and in cell size regulation through interactions with tuberous sclerosis genes.