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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 Cytomety
- 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 thro µgh 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 FKBK38 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 s µggested 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 thro µgh interactions with tuberous sclerosis genes.