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FKBP38 Rabbit pAb

Catalog # AP97454

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q14318
Other Accession	Q14318
Predicted	Rat, Pig, Human, Mouse, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44562
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FKBP38/FKBP8
Epitope Specificity	311-412/412
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 PPIase FKBP-type domain. Contains 3 TPR repeats.
SUBUNIT	Homomultimers or heteromultimers (Potential). Forms heterodimer with calmodulin. When activated by calmodulin and calcium, interacts with the BH4 domain of BCL2 and weakly with BCLX isoform Bcl-X(L). Does not bind and inhibit calcineurin. Interacts with HCV NS5A. Interacts with ZFYVE27; may negatively regulate ZFYVE27 phosphorylation.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	FKBP8 is an immunophilin family member lacking PPIase/arotamase activity that influences immunoregulation, protein folding and trafficking in neurons associated with memory function. The FKBPr38 form derives from a truncated ORF. Presenilin 1 and 2 form molecular complexes with楏nd promote degradation of栜KBPr38, and Bcl-2, and sequester these proteins in ER/Golgi, thereby inhibiting FKBPr38-mediated, ?secretase-independent, mitochondrial targeting of Bcl-2. FKBP8 present in the central nervous system can antagonize hedgehog (HH) signaling, where HH is critical for patterning and growth of many tissues in the developing embryo. Mouse FKBPr38 mRNA is present in neurons and glial cells and appears more pronounced in neurons associated with the hippocampal formation in adult mouse brains.

Additional Information

Gene ID	23770
Other Names	FKBP38; FKBPr38; 38kDa; FKBP-38; FKBP-8; mFKBP38; FKBP8_HUMAN; FKBP8; PPIase FKBP8; 38 kDa FK506-binding protein (38 kDa FKBP | FKBP-38 | hFKBP38); FK506-binding protein 8 (FKBP-8); Rotamase; 5.2.1.8; FKBP8_MOUSE; 38 kDa FK506-binding protein (38 kDa FKBP | FKBP-38 | mFKBP38); Sam11; FKBP8_RAT; FKBP prolyl isomerase 8; FK506-binding protein 8 (38kD); FK506 binding protein 8, 38kDa; FK506 binding protein 8

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	FKBP8
Synonyms	FKBP38
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. Involved in the inhibition of viral infection by influenza A viruses (IAV) (PubMed:28169297).
Cellular Location	Mitochondrion. Mitochondrion membrane; Single-pass membrane protein; Cytoplasmic side [Isoform 3]: Mitochondrion membrane; Single-pass membrane protein; Cytoplasmic side
Tissue Location	Widely expressed. Highest levels seen in the brain. Highly abundant in the retina.

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