FKBP38 Antibody

E1S0002

FK506 Binding Proteins (FKBPs) are intracellular receptors for the immuno-suppressive drug FK506. The FKBP/FK506 complex exerts its immunosuppressive effects by inhibiting calcineurin, a calcium- and calmodulin-dependent serine/ threonine phosphatase that functions as a critical signaling molecule during T cell activation.

FKBP38, also known as FKBP8, is a 355 amino acid (aa) protein with a calculated molecular weight of 38.7 kDa and an apparent molecular mass of ~55 kDa in SDS-PAGE. FKBP38 binds to and inhibits calcineurin even in the absence of FK506. Recent studies also showed that FKBP38 is an active inhibitor of mTOR signaling by binding to mTOR.

Catalog Number: E1S0002-1, E1S0002-2

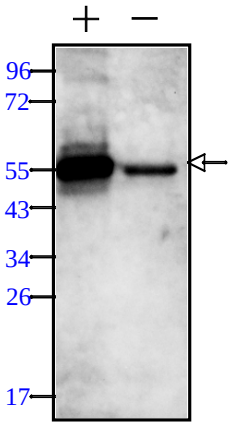
Quantity: 50ug/50uL, 100ug/100uL

Specificity/Sensitivity: FKBP38 Antibody detects endogenous levels of total mTOR on Western analysis.

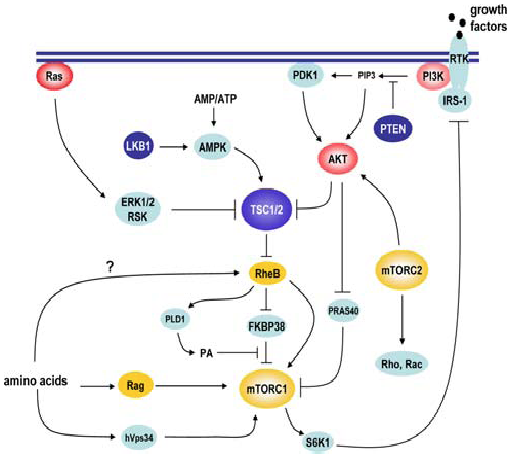
Source/Purification: Polyclonal antibodies are produced by immunizing rabbits with a bacterially expressed human FKBP38. Antibodies are purified by protein A chromatography.

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
WB, IP	H, Mu, R, Monkey	~55 Kd	Rabbit Polyclonal

*** Based on sequence homology**



Western blot analysis of protein extracts from 293 cells overexpressing a mouse FKBP38 cDNA (+ lane) as well as a mock transfected lane (- lane). The right panel illustrates mTOR signaling pathway. The primary antibody was diluted 1:2000 before applied to the blotting membrane.



Recommended Antibody Dilutions:

Immuoprecipitation: 1:100-200

Western Blotting: 1:1,000-2,000; Antibody diluent: PBST-5% non-fat milk or BSA

Storage condition: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Stable for at least 6-months if stored at –20°C.

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