Human/Mouse/Rat FKBP38 Alexa Fluor® 647-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3580R
100 µg

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat FKBP38 in Western blots. In Western blots, less than 1% cross-reactivity with recombinant human FKBP-12, -12.6, -13, -25, -51, or -52 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli* derived recombinant mouse FKBP38 Met1-Gly326 Accession # AAH03739
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

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 ~60-64 kDa in SDS-PAGE. FKBP38 binds to and inhibits calcineurin even in the absence of FK506, indicating that FKBP38 is a constitutively active inhibitor of calcineurin. Additionally, FKBP38 immunoprecipitates with Bcl-2 and Bcl-xL, suggesting that FKBP38 may regulate apoptosis by anchoring Bcl-2 and Bcl-xL to mitochondrial membranes. Mouse FKBP38 shares 94% and 87% sequence identity with human and rat FKBP38, respectively.

PRODUCT SPECIFIC NOTICES

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