

## Human/Mouse/Rat FKBP38 Antibody

Monoclonal Mouse IgG<sub>2B</sub> Clone # 391505 Catalog Number: MAB3580

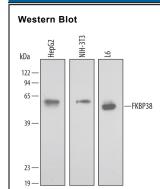
DESCRIPTION								
Species Reactivity	Human/Mouse/Rat							
Specificity	Detects endogenous human, mouse and rat FKBP38 in Western blots.							
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 391505							
Purification	Protein A or G purified from hybridoma culture supernatant							
Immunogen	E. coli-derived recombinant human FKBP38  Met58-Gly382  Accession # Q14318							
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.							

## 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.

	Recommended Concentration	Sample
Western Blot	0.5 μg/mL	See Below

## DATA



Detection of Human/Mouse/Rat FKBP38 by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line, NIH-3T3 mouse embryonic fibroblast cell line, and L6 rat myoblast cell line. PVDF membrane was probed with 0.5 µg/mL of Human/Mouse/Rat FKBP38 Monoclonal Antibody (Catalog # MAB3580) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for FKBP38 at approximately 60 to 64 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

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**Reconstitution** Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

## 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 to 412 amino acid (aa) protein with 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 co-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.

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