

# **Human/Mouse/Rat FKBP51 Antibody**

Monoclonal Rat IgG<sub>2B</sub> Clone # 425314 Catalog Number: MAB4094

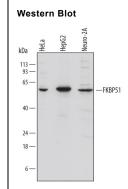
DESCRIPTION		
Species Reactivity	Human/Mouse/Rat	
Specificity	Detects endogenous human, mouse and rat FKBP51 in Western blots.	
Source	Monoclonal Rat IgG <sub>2B</sub> Clone # 425314	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant human FKBP51 Met1-Val457 Accession # Q13451	
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 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	1 μg/mL	See Below

#### DATA



Detection of Human and Mouse FKBP51 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, HepG2 human hepatocellular carcinoma cell line, and Neuro-2A mouse neuroblastoma cell line. PVDF membrane was probed with 1  $\mu$ g/mL of Human/Mouse/Rat FKBP51 Monoclonal Antibody (Catalog # MAB4094) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for FKBP51 at approximately 51 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

# PREPARATION AND STORAGE

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 protein (FKBP51) is a 51 kDa peptidyl-prolyl isomerase that catalyzes the transition between *cis*- and *trans*- proline residues critical for proper folding of proteins. The macrolide immunosuppressants FK506 and Rapamycin are FKBP51 inhibitors. FKBP51 levels are induced by glucocorticoids, and it associates with HSP90 complexes that are critical for the proper folding of steroid receptors. Single nucleotide polymorphisms in FKBP51 have been associated with major depression and hyper-responsiveness to antidepressants.

