

DESCRIPTION

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

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 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.

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