

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse, and rat FKBP13 at 13 kDa in Western blots. In Western blots, this antibody does not cross-react with recombinant human FKBP12, FKBP12.6, FKBP25, FKBP38, FKBP51, or FKBP52.
Source	Monoclonal Rat IgG _{2B} Clone # 422617
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human FKBP13 Ala22-Leu142 Accession # P26885
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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, 13 kDa molecular weight (FKBP13), also called FKBP2, is a peptidyl-prolyl isomerase that catalyzes the transition between *cis*- and *trans*-proline residues critical for proper folding of proteins. The macrolide immunosuppressant FK506 is a potent FKBP13 inhibitor. FKBP13 is strongly induced by calcium ionophores and agents that cause endoplasmic reticulum stress, such as tunicamycin. FKBP13 is membrane-associated and tightly bound to the cytoskeletal protein Band 4.1 in erythrocytes, suggesting a role in maintaining structural proteins.

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