

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human FKBP12.6 in direct ELISAs. Detects human, mouse, and rat FKBP12 and FKBP12.6 in Western blots.
Source	Monoclonal Rat IgG _{2B} Clone # 426227
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human FKBP12.6 Gly2-Glu108 Accession # P68106
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 protein, 12.6 kDa molecular weight (FKBP12.6), also called FKBP1B, is a peptidyl-prolyl isomerase that catalyzes the transition between *cis*- and *trans*- proline residues critical for proper folding of proteins. The immunosuppressant FK506 is a potent inhibitor of FKBP12.6. FKBP12.6 is localized in the sarcoplasmic reticulum associated with the Ryanodine receptor RYR2. PKA-induced phosphorylation of RYR2 causes FKBP12.6 dissociation. In heart failure, RYR2 is hyperphosphorylated and has low levels of FKBP12.6 bound to it. Male FKBP12.6 knockout mice have cardiac hypertrophy and lethal exercise arrhythmias.

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