Human/Mouse/Rat FKBP13 Antibody

Monoclonal Rat IgG_{2B} Clone # 422617

Catalog Number: MAB4356

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	*E. coli*-derived recombinant human FKBP13 Ala22-Leu142 Accession # P26885
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.

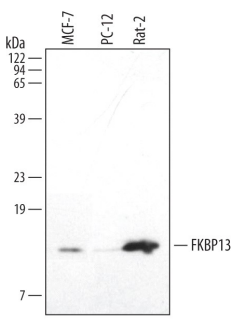
APPLICATIONS

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	1 µg/mL	See Below

DATA

Western Blot



Detection of Human and Rat FKBP13 by Western Blot. Western blot shows lysates of MCF-7 human breast cancer cell line, PC-12 rat adrenal pheochromocytoma cell line, and Rat-2 rat embryonic fibroblast cell line. PVDF membrane was probed with 1 µg/mL of Human/Mouse/Rat FKBP13 Monoclonal Antibody (Catalog # MAB4356) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for FKBP13 at approximately 13 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
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 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, 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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