Human/Mouse/Rat FKBP12.6 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF4174

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat FKBP12.6 in Western blots. In Western blots, approximately 15% cross-reactivity with recombinant human FKBP12 and less than 1% cross-reactivity with recombinant human FKBP13 and FKBP25 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human FKBP12.6 Met1-Glu108 Accession # P68106
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.

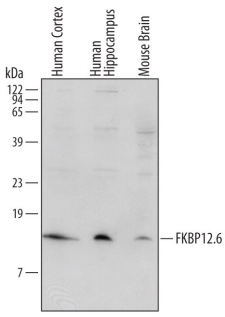
APPLICATIONS

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
Immunohistochemistry	5-15 µg/mL	See Below
Simple Western	50 µg/mL	See Below

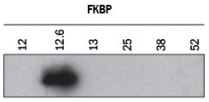
DATA

Western Blot



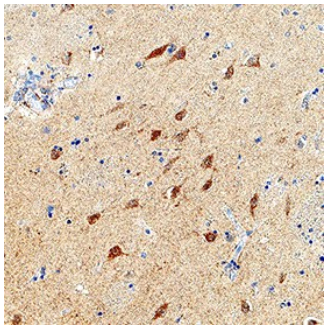
Detection of Human/Mouse/Rat FKBP12.6 by Western Blot. Western blot shows lysates of human cortex, human hippocampus, and mouse brain tissues. PVDF membrane was probed with 1 µg/mL of Human/Mouse/Rat FKBP12.6 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4174) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for FKBP12.6 at approximately 13 kDa (as indicated). This experiment was conducted using Immunoblot Buffer Group 2.

Western Blot



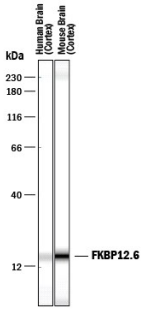
Specificity of FKBP12.6 Shown by Western Blot. Western blot shows recombinant human FKBP 12, recombinant human FKBP 12.6, recombinant human FKBP 13, recombinant human FKBP 25, recombinant human FKBP 38, and recombinant human FKBP 52. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human/Mouse/Rat FKBP12.6 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4174) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for FKBP12.6 at approximately 13 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



FKBP12.6 in Human Brain. FKBP12.6 was detected in immersion fixed paraffin-embedded sections of human brain (caudate nucleus) using Goat Anti-Human/Mouse/Rat FKBP12.6 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4174) at 10 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Goat IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC004). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in neurons. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

Simple Western



Detection of Human and Mouse FKBP12.6 by Simple Western™. Simple Western lane view shows lysates of human brain (cortex) tissue and mouse brain (cortex) tissue, loaded at 0.2 mg/mL. A specific band was detected for FKBP12.6 at approximately 16 kDa (as indicated) using 50 µg/mL of Goat Anti-Human/Mouse/Rat FKBP12.6 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4174) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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.

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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 Ryanodyne 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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