

FKBP8 (H-220): sc-66894

BACKGROUND

FKBP8 (FKBP38, FK506 binding protein 8) is an immunophilin family member lacking PPlase/arotamase activity that influences immunoregulation, protein folding and trafficking in neurons associated with memory function. The FKBP38 form derives from a truncated ORF. Presenilin 1 and 2 form molecular complexes with—and promote degradation of—FKBP38, and Bcl-2, and sequester these proteins in ER/Golgi, thereby inhibiting FKBP38-mediated, γ -secretase-independent, mitochondrial targeting of Bcl-2. FKBP8 present in the central nervous system can antagonize sonic hedgehog (SHH) signaling, where SHH is critical for patterning and growth of many tissues in the developing embryo. Mouse FKBP38 mRNA is present in neurons and glial cells and appears more pronounced in neurons associated with the hippocampal formation in adult mouse brains.

CHROMOSOMAL LOCATION

Genetic locus: FKBP8 (human) mapping to 19p13.11; Fkbp8 (mouse) mapping to 8 B3.3.

SOURCE

FKBP8 (H-220) is a rabbit polyclonal antibody raised against amino acids 136-355 mapping at the C-terminus of FKBP8 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

FKBP8 (H-220) is recommended for detection of FKBP8 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

FKBP8 (H-220) is also recommended for detection of FKBP8 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for FKBP8 siRNA (h): sc-45637, FKBP8 siRNA (m): sc-45638, FKBP8 shRNA Plasmid (h): sc-45637-SH, FKBP8 shRNA Plasmid (m): sc-45638-SH, FKBP8 shRNA (h) Lentiviral Particles: sc-45637-V and FKBP8 shRNA (m) Lentiviral Particles: sc-45638-V.

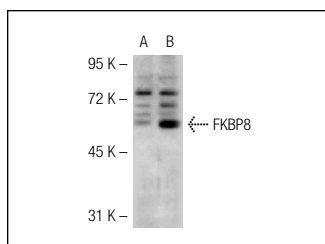
Molecular Weight of FKBP8: 53 kDa.

Positive Controls: FKBP8 (m): 293T Lysate: sc-120281, HeLa whole cell lysate: sc-2200 or Hs 181 Tes whole cell lysate: sc-364779.

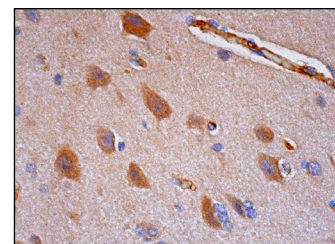
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



FKBP8 (H-220): sc-66894. Western blot analysis of FKBP8 expression in non-transfected: sc-117752 (A) and mouse FKBP8 transfected: sc-120281 (B) 293T whole cell lysates.



FKBP8 (H-220): sc-66894. Immunoperoxidase staining of formalin fixed, paraffin-embedded human cerebral cortex tissue showing cytoplasmic staining of neuronal cells and glial cells and cytoplasmic and membrane staining of endothelial cells.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **FKBP8 (C-10): sc-166607**, our highly recommended monoclonal alternative to FKBP8 (H-220).