# FKBP8 (N-13): sc-46334



The Power to Question

#### **BACKGROUND**

FKBP8 (FKBPr38, 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 FKBPr38 form derives from a truncated ORF. Presenilin 1 and 2 form molecular complexes with-and promote degradation of-FKBPr38, and Bcl-2, and sequester these proteins in ER/Golgi, thereby inhibiting FKBPr38-mediated,  $\gamma$ -secretase-independent, mitochondrial targeting of Bcl-2. FKBP8 present in the central nervous system can antagonize hedgehog (HH) signaling, where HH is critical for patterning and growth of many tissues in the developing embryo. Mouse FKBPr38 mRNA is present in neurons and glial cells and appears more pronounced in neurons associated with the hippocampal formation in adult mouse brains.

# **REFERENCES**

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# CHROMOSOMAL LOCATION

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

## SOURCE

FKBP8 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of FKBP8 of human origin.

# **STORAGE**

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

#### **PRODUCT**

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

Blocking peptide available for competition studies, sc-46334 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **APPLICATIONS**

FKBP8 (N-13) 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), immunofluorescence (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 (N-13) 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: HeLa whole cell lysate: sc-2200.

# **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

# **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 (N-13).

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