FKBP8 (C-10): sc-166607

**BACKGROUND**

FKBP8 (FKBP38, FK506 binding protein 8) is an immunophilin family member lacking PPIase/aromatase 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.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: FKBP8 (human) mapping to 19p13.11.

**SOURCE**

FKBP8 (C-10) is a mouse monoclonal antibody raised against amino acids 136-355 mapping at the C-terminus of FKBP8 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

FKBP8 (C-10) is available conjugated to agarose (sc-166607 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166607 HRP), 200 µg/ml, for WB, IHC/IP and ELISA; to either phycoerythrin (sc-166607 PE), fluorescein (sc-166607 FITC), Alexa Fluor® 488 (sc-166607 AF488), Alexa Fluor® 546 (sc-166607 AF546), Alexa Fluor® 594 (sc-166607 AF594) or Alexa Fluor® 647 (sc-166607 AF647), 200 µg/ml, for WB (RGB), IF, IHC/IP and FCM; and to either Alexa Fluor® 680 (sc-166607 AF680) or Alexa Fluor® 790 (sc-166607 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

FKBP8 (C-10) is recommended for detection of FKBP8 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:300).

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

Molecular Weight of FKBP8: 53 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, COLO 205 whole cell lysate: sc-364177 or Hs 181 Tes whole cell lysate: sc-364779.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgGk BP-HRP: sc-516102 or m-IgGk BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGk BP-PE: sc-516140 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

**SELECT PRODUCT CITATIONS**


**STORAGE**

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

**RESEARCH USE**

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