

FKBP11 (D-14): sc-83818

BACKGROUND

The immunophilins are a highly conserved family of *cis-trans* peptidyl-prolyl isomerases that bind to and mediate the effects of immunosuppressive drugs, such as cyclosporin, FK506 and Rapamycin. Immunophilins have also been implicated in protein folding and trafficking within the endoplasmic reticulum (ER). FKBP11 (FK506-binding protein 11), also known as FKBP19 or peptidyl-prolyl *cis-trans* isomerase FKBP11, is a 201 amino acid single-pass membrane protein belonging to the FKBP-type PPIase family, a group of proteins known to catalyze the folding of proline-containing polypeptides. Containing one PPIase FKBP-type domain, FKBP11 is expressed in secretory tissues such as pancreas, pituitary, stomach, lymph node and salivary gland, and is encoded by a gene that maps to human chromosome 12q13.12. FK506 and Rapamycin are known to inhibit FKBP11's peptidyl-prolyl isomerase activity.

REFERENCES

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- Breiman, A. and Camus, I. 2002. The involvement of mammalian and plant FK506-binding proteins (FKBPs) in development. *Transgenic Res.* 11: 321-335.
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CHROMOSOMAL LOCATION

Genetic locus: FKBP11 (human) mapping to 12q13.12; Fkbp11 (mouse) mapping to 15 F1.

SOURCE

FKBP11 (D-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FKBP11 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-83818 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

FKBP11 (D-14) is recommended for detection of FKBP11 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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), 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); non cross-reactive with other FKBP family members.

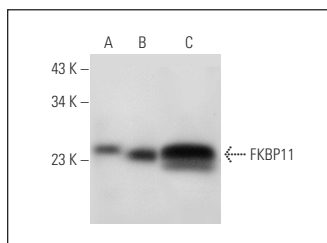
FKBP11 (D-14) is also recommended for detection of FKBP11 in additional species, including equine and porcine.

Suitable for use as control antibody for FKBP11 siRNA (h): sc-75021, FKBP11 siRNA (m): sc-75022, FKBP11 shRNA Plasmid (h): sc-75021-SH, FKBP11 shRNA Plasmid (m): sc-75022-SH, FKBP11 shRNA (h) Lentiviral Particles: sc-75021-V and FKBP11 shRNA (m) Lentiviral Particles: sc-75022-V.

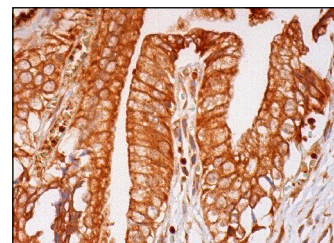
Molecular Weight of FKBP11: 22 kDa.

Positive Controls: human spleen extract: sc-363779, mouse spleen extract: sc-2391 or Jurkat whole cell lysate: sc-2204.

DATA



FKBP11 (D-14): sc-83818. Western blot analysis of FKBP11 expression in human spleen (A) and mouse spleen (B) tissue extracts and Jurkat whole cell lysate (C).



FKBP11 (D-14): sc-83818. Immunoperoxidase staining of formalin fixed, paraffin-embedded human gall bladder tissue showing membrane and cytoplasmic staining of glandular 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 **FKBP11 (D-3): sc-398700**, our highly recommended monoclonal alternative to FKBP11 (D-14).