FKBP2 (D-9): sc-390753

**BACKGROUND**

FKBP2 (FK506-binding protein 2), also known as PPlase (peptidyl-prolyl cis-trans isomerase) and FKBP13 (13 kDa FKBP), is a 142 amino acid enzyme that accelerates the folding of proteins. Specifically, FKBP2 catalyzes the cis-trans isomerization of imidic peptide bonds in oligopeptides. Localized to the endoplasmic reticular membrane, FKBP2 is predominantly expressed in thymus and T-cells. FKBP2 is an immunophilin, an intracellular receptor that is inhibited by immunosuppressant drugs such as FK506 and rapamycin. FKBP2 is an immunophilin, an intracellular receptor that is inhibited by immunosuppressant drugs such as FK506 and rapamycin. BIG1, a guanine nucleotide exchange factor, and the C-terminus of 4.1G, a protein that stabilizes spectrin-actin binding, interact with FKBP2. The gene encoding FKBP2 maps to human chromosome 11, which houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that map to chromosome 11.

**REFERENCES**


**CHROMOSOMAL LOCALIZATION**

Genetic locus: FKBP2 (human) mapping to 11q13.1; Fkbp2 (mouse) mapping to 19 A.

**SOURCE**

FKBP2 (D-9) is a mouse monoclonal antibody raised against amino acids 79-142 mapping at the C-terminus of FKBP2 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.

**STORAGE**

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

**APPLICATIONS**

FKBP2 (D-9) is recommended for detection of FKBP2 of mouse, rat and 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:1500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).


Molecular Weight of FKBP2: 13-16 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409, COLO 205 whole cell lysate: sc-364177 or NIH/3T3 whole cell lysate: sc-2210.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG 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-IgG BP-FITC: sc-516140 or m-IgG BP-PE: sc-516141 (dilution range 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgG BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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