

FKBPL (Q-12): sc-161053

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. FKBPL (FK506-binding protein-like), also known as WAF-1/CIP1 stabilizing protein 39 and DIR1, is a 349 amino acid immunophilin protein that recruits Hsp 90 to stabilize p21 by preventing its proteosomal degradation. After ionizing radiation, FKBPL is transiently repressed and may play a role in induced radioresistance through a mechanism that increases rate of DNA repair in X ray exposed cells. siRNA knockdown of FKBPL results in decreased levels of cell cycle inhibitor p21WAF1 and increased ER α phosphorylation in response to 17- β Estradiol and tamoxifen. This evidence suggests that FKBPL may have an impact on tumor proliferative capacity and sensitivity to endocrine therapies.

REFERENCES

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- Bublik, D.R., et al. 2010. Human GTSE-1 regulates p21(CIP1/WAF1) stability conferring resistance to paclitaxel treatment. *J. Biol. Chem.* 285: 5274-5281.
- Sunnotel, O., et al. 2010. Alterations in the steroid hormone receptor co-chaperone FKBPL are associated with male infertility: a case-control study. *Reprod. Biol. Endocrinol.* 8: 22.

CHROMOSOMAL LOCATION

Genetic locus: FKBPL (human) mapping to 6p21.33; Fkbpl (mouse) mapping to 17 B1.

STORAGE

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

SOURCE

FKBPL (Q-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of FKBPL 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.

Blocking peptide available for competition studies, sc-161053 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FKBPL (Q-12) is recommended for detection of FKBPL 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).

Suitable for use as control antibody for FKBPL siRNA (h): sc-95250, FKBPL siRNA (m): sc-145194, FKBPL shRNA Plasmid (h): sc-95250-SH, FKBPL shRNA Plasmid (m): sc-145194-SH, FKBPL shRNA (h) Lentiviral Particles: sc-95250-V and FKBPL shRNA (m) Lentiviral Particles: sc-145194-V.

Molecular Weight of FKBPL: 48 kDa.

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.