**BACKGROUND**

Rb protein and p53 are both cell cycle checkpoint components. Evidence suggests that p53 plays a role in regulating the phosphorylation of Rb by inducing p21 transcription, thus preventing Rb phosphorylation at the G1 to S transition. Protein-protein interactions seem to be central in p53 cellular functions, as previously demonstrated with MDM2 and SV40 large T antigen. Two novel proteins have been identified by their abilities to bind to p53 and/or Rb. Human RBQ-1 (also designated RBBP6) has been cloned as a novel protein that binds to the retinoblastoma (Rb) gene product. A related mouse protein, P2P-R, also designated PACT (for p53 associated cellular protein-testis derived), has been shown to bind to both Rb and p53. Recombinant P2P-R binds to wildtype p53 but not to mutant p53, and it can interfere with p53 specific DNA binding. RBQ-1 may be a truncated human form of the P2P-R protein.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: RBBP6 (human) mapping to 16p12.1; Rbbp6 (mouse) mapping to 7 F3.

**SOURCE**

P2P-R (M56) is a mouse monoclonal antibody raised against amino acids 753-909 of P2P-R of mouse origin.

**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.

**PRODUCT**

Each vial contains 200 µg IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

P2P-R (M56) is available conjugated to agarose (sc-9962 AC), 500 µg/0.25 ml agarose in 1 ml, for IP.

**APPLICATIONS**

P2P-R (M56) is recommended for detection of P2P-R of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:10 000-1:10 000), 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 immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for P2P-R siRNA (h): sc-40900, P2P-R siRNA (m): sc-40901, P2P-R shRNA Plasmid (h): sc-40900-SH, P2P-R shRNA Plasmid (m): sc-40901-SH, P2P-R shRNA (h)Lentiviral Particles: sc-40900-V and P2P-R shRNA (m)Lentiviral Particles: sc-40901-V.

Molecular Weight of P2P-R splice variants: 202/197/106/13 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210 or K-562 whole cell lysate: sc-2203.

**DATA**

![Western blot analysis of P2P-R expression](image1)

![Immunoperoxidase staining](image2)

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.