



## RP105 (6A521): sc-71968

### BACKGROUND

RP105 is a mouse B cell surface molecule that transmits a growth-promoting signal and is implicated in the life/death decision of B cells. RP105 has tandem repeats of a leucine-rich motif in its extracellular domain that are presumed to be involved in protein-protein interactions. The amino acid sequence of human RP105 is highly homologous to that of mouse RP105; human RP105 shares 74% identity with the mouse protein, as well as the leucine-rich motif. Surface expression of RP105 is enhanced in the presence of MD-1, although this expression is restricted to CD19-positive B cells. RP105 demonstrates predominant expression on mature B cells in mantle zones; very little expression is observed in germinal centers.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: Cd180 (mouse) mapping to 13 D1.

### RESEARCH USE

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

### SOURCE

RP105 (6A521) is a rat monoclonal antibody raised against transfected cells expressing full length RP105 (also known as CD180) of mouse origin.

### PRODUCT

Each vial contains 200 µg IgG<sub>2a</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

### APPLICATIONS

RP105 (6A521) is recommended for detection of RP105 of mouse origin by 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 flow cytometry (1 µg per 1 x 10<sup>6</sup> cells).

Suitable for use as control antibody for RP105 siRNA (m): sc-40253, RP105 shRNA Plasmid (m): sc-40253-SH and RP105 shRNA (m) Lentiviral Particles: sc-40253-V.

Molecular Weight of RP105: 95-105 kDa.

### STORAGE

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

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.