RP105 (RP/14): sc-13592

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 MD1, 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


CHROMOSOMAL LOCATION

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

SOURCE

RP105 (RP/14) 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 IgG2a in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin. Also available azide-free for activation of B-cells in functional studies, sc-13592 L, 200 µg/0.1 ml.

RP105 (RP/14) is available conjugated to agarose (sc-13592 AC), 500 µg/0.25 ml agarose in 1 ml, for IP, to HRP (sc-13592 HRP), 200 µg/ml, for WB, HCIP and ELISA; to either phyceroerythrin (sc-13592 PE), fluorescein (sc-13592 FITC), Alexa Fluor® 488 (sc-13592 AF488), Alexa Fluor® 546 (sc-13592 AF546), Alexa Fluor® 594 (sc-13592 AF594) or Alexa Fluor® 647 (sc-13592 AF647), 200 µg/ml, for WB (RGB), IF, HCIP and FCM; and to either Alexa Fluor® 680 (sc-13592 AF680) or Alexa Fluor® 790 (sc-13592 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

RP105 (RP/14) 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), flow cytometry (1 µg per 1 x 10⁶ cells) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

DATA

SELECT PRODUCT CITATIONS


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.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.