BACKGROUND

CD164 is a Mucin-like cell surface glycoprotein that facilitates adhesion of CD34+ cells and serves as a negative regulator of hematopoietic progenitor cell proliferation. Human CD164 in CD34+CD38+ hematopoietic progenitor and epithelial cell lines localizes to endosomes and lysosomes, with low concentrations also appearing at the cell surface.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: CD164 (human) mapping to 6q21; Cd164 (mouse) mapping to 10 B2.

SOURCE

CD164 (H-4) is a mouse monoclonal antibody raised against amino acids 1-123 mapping at the N-terminus of CD164 of human origin.

PRODUCT

Each vial contains 200 µg IgG2k 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

CD164 (H-4) is recommended for detection of CD164 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30:1:3000).

Suitable for use as control antibody for CD164 siRNA (h): sc-44677, CD164 siRNA (m): sc-44678, CD164 shRNA Plasmid (m): sc-44678-SH, CD164 shRNA Plasmid (m): sc-44677-V and CD164 shRNA (m) Lentiviral Particles: sc-44677-V and CD164 shRNA (m) Lentiviral Particles: sc-44678-V.

Molecular Weight of CD164: 80 kDa.

Positive Controls: Jurkat nuclear extract: sc-2132, HL-60 whole cell lysate: sc-2209 or COLO 320DM whole cell lysate: sc-2228.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:


DATA

CD164 (H-4): sc-271179. Western blot analysis of CD164 expression in COLO 320DM whole cell lysate.

CD164 (H-4): sc-271179. Western blot analysis of CD164 expression in Jurkat nuclear extract (A) and T-47D (B), HL-60 (C) and HEL 92.1.7 (D) whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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