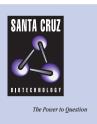
SANTA CRUZ BIOTECHNOLOGY, INC.

CD164 (A-16): sc-27803



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

- 1. Watt, S.M., et al. 1998. CD164, a novel sialomucin on CD34+ and erythroid subsets, is located on human chromosome 6q21. Blood. 92: 849-866.
- Doyonnas, R., et al. 2000. CD164 monoclonal antibodies that block hemopoietic progenitor cell adhesion and proliferation interact with the first mucin domain of the CD164 receptor. J. Immunol. 165: 840-851.
- Watt, S.M., et al. 2000. Functionally defined CD164 epitopes are expressed on CD34⁺ cells throughout ontogeny but display distinct distribution patterns in adult hematopoietic and nonhematopoietic tissues. Blood 95: 3113-3124.
- Chan, J.Y., et al. 2001. Relationship between novel isoforms, functionally important domains, and subcellular distribution of CD164/endolyn. J. Biol. Chem. 276: 2139-2152.
- Lee, Y.N., et al. 2001. Identification of a role for the sialomucin CD164 in myogenic differentiation by signal sequence trapping in yeast. Mol. Cell. Biol. 21: 7696-7706.
- McGuckin, C.P., et al. 2003. Colocalization analysis of sialomucins CD34 and CD164. Stem Cells 21: 162-170.
- 7. LocusLink Report (LocusID: 8763). http://www.ncbi.nlm.nih.gov/LocusLink/

CHROMOSOMAL LOCATION

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

SOURCE

CD164 (A-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CD164 of mouse origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-27803 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **D0 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 or our catalog for detailed protocols and support products.

APPLICATIONS

CD164 (A-16) is recommended for detection of CD164 of mouse and rat 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 CD164 siRNA (m): sc-44678.

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) Immunofluores-cence: 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.