CD164 (M-197): sc-33125



The Power to Question

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

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- 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.
- 3. 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. Jorgensen-Tye, B., et al. 2005. Epitope recognition of antibodies that define the sialomucin, endolyn (CD164), a negative regulator of haematopoiesis. Tissue Antigens 65: 220-239.
- 8. Havens, A.M., et al. 2006. The role of sialomucin CD164 (MGC-24v or endolyn) in prostate cancer metastasis. BMC Cancer 6: 195.

CHROMOSOMAL LOCATION

Genetic locus: Cd164 (mouse) mapping to 10 B2.

SOURCE

CD164 (M-197) is a rabbit polyclonal antibody raised against amino acids 1-197 representing full length 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.

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.

APPLICATIONS

CD164 (M-197) is recommended for detection of CD164 of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1–2 μ g per 100–500 μ g 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 (m): sc-44678.

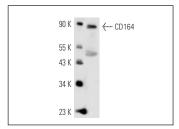
Molecular Weight of CD164: 80 kDa.

Positive Controls: WEHI-3 cell lysate: sc-3815.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



CD164 (M-197): sc-33125. Western blot analysis of CD164 expression in WEHI-3 whole cell lysate.

PROTOCOLS

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

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