# SANTA CRUZ BIOTECHNO

# CD165 (SN2 N6-D11): sc-58969

# BACKGROUND

Interactions between T cells and epithelial cells of the thymus are very important for normal T cell development, and interactions between T cells and skin epidermal keratinocytes occur during inflammatory skin diseases and cutaneous T cell malignancies. CD165, also known as AD2, is a cell surface glycoprotein that localizes to the membrane of a subset of peripheral lymphocytes and monocytes, and is strongly expressed on T cell type acute lymphoblastic cells and on almost all platelets. CD165 localizes to spleen, thymocytes, thymic epithelial cells, central nervous system neurons, islet cells of the pancreas and bowman's capsule of the kidney. CD165 is important for adhesion of thymocytes to thymic epithelial cells.

# REFERENCES

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#### SOURCE

CD165 (SN2 N6-D11) is a mouse monoclonal antibody raised against purified CD165 from MOLT-4, a T-cell leukemic cell line of human origin.

## PRODUCT

Each vial contains 200  $\mu g$  IgG\_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

# **RESEARCH USE**

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

## APPLICATIONS

CD165 (SN2 N6-D11) is recommended for detection of CD165 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1  $\mu$ g per 1 x 10<sup>6</sup> cells).

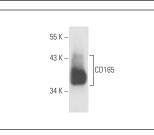
Molecular Weight of CD165: 37 kDa.

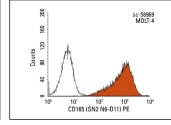
Positive Controls: Jurkat whole cell lysate: sc-2204 or MIA PaCa-2 cell lysate: sc-2285.

#### **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 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 m-IgG $\kappa$  BP-FITC: sc-516140 or m-IgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850.

#### DATA





CD165 (SN2 N6-D11): sc-58969. Western blot analysis of CD165 expression in Jurkat whole cell lysate under non-reducing conditions.

CD165 (SN2 N6-D11): sc-58969. Indirect FCM analysis of MOLT-4 stained with CD165 (SN2 N6-D11), followed by PE-conjugated goat anti-mouse IgG<sub>1</sub>: sc-3764. Black line histogram represents the isotype control, normal mouse IgG<sub>1</sub>: sc-3877.

#### **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 for detailed protocols and support products.