

CD165 (AD2): sc-53885

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 (AD2) is a mouse monoclonal antibody raised against HSB cells of human origin.

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.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CD165 (AD2) is available conjugated to agarose (sc-53885 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-53885 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-53885 PE), fluorescein (sc-53885 FITC), Alexa Fluor[®] 488 (sc-53885 AF488), Alexa Fluor[®] 546 (sc-53885 AF546), Alexa Fluor[®] 594 (sc-53885 AF594) or Alexa Fluor[®] 647 (sc-53885 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-53885 AF680) or Alexa Fluor[®] 790 (sc-53885 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

CD165 (AD2) 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 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 flow cytometry (1 µg per 1 x 10⁶ cells).

Molecular Weight of CD165: 37 kDa.

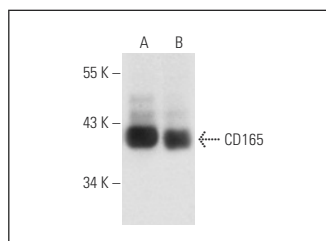
Positive Controls: Jurkat whole cell lysate: sc-2204, CCRF-CEM cell lysate: sc-2225 or MIA PaCa-2 cell lysate: sc-2285.

RECOMMENDED SUPPORT REAGENTS

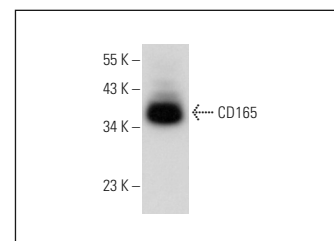
To ensure optimal results, the following support reagents are recommended:

- 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] 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-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

DATA



CD165 (AD2): sc-53885. Western blot analysis of CD165 expression in Jurkat (A) and MIA PaCa-2 (B) whole cell lysates.



CD165 (AD2): sc-53885. Western blot analysis of CD165 expression in CCRF-CEM whole cell lysate.

PROTOCOLS

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