HCAM (DF1485): sc-7297

**BACKGROUND**

Cell adhesion molecules (CAMs) are a family of closely related cell surface glycoproteins involved in cell-cell interactions during growth and play an important role in embryogenesis and development. HCAM (also designated CD44) is a member of the CAM family and participates in the progression of IgA nephropathy by binding hyaluronic acid and osteopontin. The co-localization of osteopontin in the bladder epithelium with αVβ3 integrin and HCAM suggests a role for HCAM in maintaining the integrity of the transitional epithelium by providing the sealing and adhesiveness needed for the impermeable state of the bladder. HCAM is closely related to the secretory phase of the normal menstrual cycle and its expression is decreased in hyperplasia and in cancer cases. Decreased HCAM expression may be functionally involved in the multiple mechanisms of the development and progression of endometrial lesions.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: CD44 (human) mapping to 11p13; C44 (mouse) mapping to 2 E2.

**SOURCE**

HCAM (DF1485) is a mouse monoclonal antibody raised against purified CD44 antigen (PGp-1) from lymphocyte membrane.

**PRODUCT**

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

Available as PE conjugate for flow cytometry, sc-7297 PE, 100 tests.
Available as fluorescein conjugate for flow cytometry, sc-7297 FITC, 100 tests.
Available as APC conjugate for flow cytometry, sc-7297 APC, 100 tests.
Available as AlexaFluor 405 (sc-7297 AF405), AlexaFluor 488 (sc-7297 AF488) or AlexaFluor 647 (sc-7297 AF647) conjugates for flow cytometry or immunofluorescence; 100 µg/2 ml.

**STORAGE**

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**APPLICATIONS**

HCAM (DF1485) is recommended for detection of HCAM of mouse and 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 and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10⁶ cells). Suitable for use as control antibody for HCAM siRNA (h): sc-29342 and HCAM siRNA (m): sc-35534.

Molecular Weight of HCAM: 90-95 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, U-937 cell lysate: sc-2239 or HL-60 whole cell lysate: sc-2209.

**DATA**

SELECT PRODUCT CITATIONS


**RESEARCH USE**

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

**PROTOCOLS**

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