**BACKGROUND**

Cell adhesion molecules (CAMs) are a family of closely related, cell surface glycoproteins that are involved in cell-cell interactions and are thought to play an important role in embryogenesis and development. HCAM, also known as CD44, LHR, MDU2, MDU3, MHC, Pgp1, HCELL, MUTCH-I or ECMR-III, is a 742 amino acid single-pass type I membrane protein that is involved in hematopoiesis, lymphocyte activation and tumor metastasis. Functioning as a receptor for hyaluronic acid (HA) and interacting with ligands such as osteopontin (OPN), HCAM mediates both cell-cell and cell-matrix interactions, thereby playing an essential role in cell adhesion and cell migration. HCAM contains one Link domain and, due to alternative splicing events, is expressed as multiple isoforms, some of which are designated CD44R, CD44w, CD44S, CD44H or PerCP-Cy5.5 (sc-9960 PCPC5), 100 tests in 2 ml, for IF, IHC (P) and FCM.

Positive Controls: HeLa whole cell lysate: sc-2200, HUV-EC-C whole cell lysate: sc-364180 or HL-60 whole cell lysate: sc-2209

**APPLICATIONS**

HCAM (F-4) is recommended for detection of HCAM of mouse, rat 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 (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10^6 cells).

Suitable for use as control antibody for HCAM siRNA (h): sc-29342, HCAM siRNA (m): sc-35534, HCAM shRNA Plasmid (h): sc-29342-SH, HCAM shRNA Plasmid (m): sc-35534-SH, HCAM shRNA (h) Lentiviral Particles: sc-29342-V and HCAM shRNA (m) Lentiviral Particles: sc-35534-V.

Molecular Weight of HCAM: 90-95 kDa.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: CD44 (human) mapping to 11p13; Cd44 (mouse) mapping to 7q32-33.

**SOURCE**

HCAM (F-4) is a mouse monoclonal antibody raised against amino acids 21-320 of HCAM of human origin.

**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.

HCAM (F-4) is available conjugated to agarose (sc-9960 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-9960 HRP), 200 µg/ml, for WB, IHOP and ELISA; to either phycoerythrin (sc-9960 PE), fluorescein (sc-9960 FITC), Alexa Fluor® 488 (sc-9960 AF488), Alexa Fluor® 546 (sc-9960 AF546), Alexa Fluor® 594 (sc-9960 AF594) or Alexa Fluor® 647 (sc-9960 AF647), 200 µg/ml, for WB (RGB), IF, IHOP and FCM; and to either Alexa Fluor® 680 (sc-9960 AF680) or Alexa Fluor® 790 (sc-9960 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

In addition, HCAM (F-4) is available conjugated to either PerCP (sc-9960 PerCP) or PerCP-Cy5.5 (sc-9960 PCPC5), 100 tests in 2 ml, for IF, IHOP and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

**STORAGE**

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

**SELECT PRODUCT CITATIONS**


