**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, MIC4, Pgp1, HCELL, MUTC1 or ECMR-III, is a 742 amino acid single-pass type I membrane protein that is involved in hematoopoiesis, 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, CDw44, CD44S, CD44H (hematopoietic) and CD44E (epithelial). While most of the HCAM splice variants are expressed in tissues throughout the body, one specific isoform, namely CD44H, is expressed at high levels in cancer tissue, suggesting an important role for the CD44H splice variant in tumor progression.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: CD44 (human) mapping to 11p13; Cd44 (mouse) mapping to 2 E2.

**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 IgG; 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, IHC(P) 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, IHC(P) 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.

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**RESEARCH USE**

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