

# BCAM (H-44): sc-99188

## BACKGROUND

Cell adhesion molecules (CAMs) influence cell growth, differentiation, embryogenesis, immune response and cancer metastasis by networking information from the extracellular matrix to the cell. Regulation of neuronal synaptic adhesion by CAMs has proven important for learning and memory. Proper embryonic morphogenic development is also heavily dependent on the regulation of cell adhesion molecules. Mutation of CAM genes has been linked to several forms of cancer, effecting tumor growth and metastasis. Lutheran blood group glycoprotein, also designated BCAM cell surface glycoprotein or auberger B antigen, plays a role in intracellular signaling. It is a widely expressed protein but the highest level of expression is in pancreas tissue.

## CHROMOSOMAL LOCATION

Genetic locus: BCAM (human) mapping to 19q13.32; Bcam (mouse) mapping to 7 A3.

## SOURCE

BCAM (H-44) is a rabbit polyclonal antibody raised against amino acids 258-301 mapping within an internal region of BCAM of human origin.

## PRODUCT

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

## 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.

## APPLICATIONS

BCAM (H-44) is recommended for detection of BCAM 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

BCAM (H-44) is also recommended for detection of BCAM in additional species, including canine and porcine.

Suitable for use as control antibody for BCAM siRNA (h): sc-60263, BCAM siRNA (m): sc-60264, BCAM shRNA Plasmid (h): sc-60263-SH, BCAM shRNA Plasmid (m): sc-60264-SH, BCAM shRNA (h) Lentiviral Particles: sc-60263-V and BCAM shRNA (m) Lentiviral Particles: sc-60264-V.

Molecular Weight of BCAM major isoform: 85 kDa.

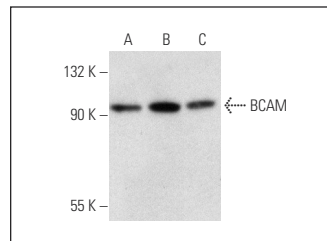
Molecular Weight of BCAM minor isoform: 78 kDa.

Positive Controls: BCAM (m): 293T Lysate: sc-126494, K-562 whole cell lysate: sc-2203 or TF-1 cell lysate: sc-2412.

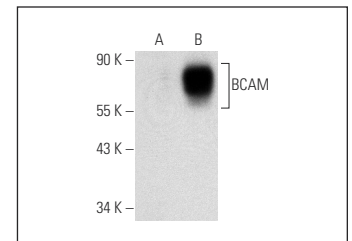
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



BCAM (H-44): sc-99188. Western blot analysis of BCAM expression in K-562 (A), TF-1 (B) and MIA PaCa-2 (C) whole cell lysates.



BCAM (H-44): sc-99188. Western blot analysis of BCAM expression in non-transfected: sc-117752 (A) and mouse BCAM transfected: sc-126494 (B) 293T whole cell lysates.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **BCAM (D-6): sc-365191** or **BCAM (A-4): sc-514758**, our highly recommended monoclonal alternatives to BCAM (H-44).