

DESCRIPTION

Species Reactivity	Mouse/Rat
Specificity	Detects mouse and rat BCAM in Western blots. In direct ELISAs, less than 50% cross-reactivity with recombinant human BCAM is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse BCAM Met1-Ala541 Accession # Q9R069
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

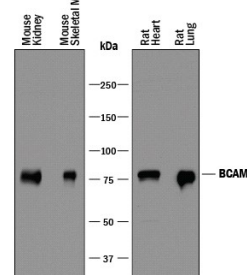
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

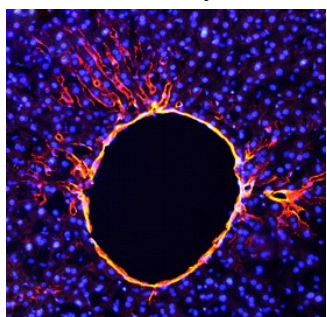
DATA

Western Blot



Detection of Mouse and Rat BCAM by Western Blot. Western blot shows lysates of mouse kidney tissue, mouse skeletal muscle tissue, rat heart tissue, and rat lung tissue. PVDF membrane was probed with 0.5 µg/mL of Goat Anti-Mouse/Rat BCAM Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8299) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for BCAM at approximately 80 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



BCAM in Mouse Liver. BCAM was detected in perfusion fixed frozen sections of mouse liver using Goat Anti-Mouse/Rat BCAM Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8299) at 1.7 µg/mL overnight at 4 °C. Tissue was stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to endothelial cells. View our protocol for [Fluorescent IHC Staining of Frozen Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Mouse BCAM (Basal cell adhesion molecule, B-CAM cell surface glycoprotein, Lutheran antigen, and CD239) is a 70-90 kDa membrane glycoprotein. BCAM has wide tissue distribution and is expressed on erythrocytes, the endothelium of blood vessels and on the basal layer of cells in the epithelia. The expression of BCAM in normal tissues is higher in fetal versus adult tissues. BCAM expression is also upregulated in activated keratinocytes and following malignant transformation in some cell types in vivo and in vitro. BCAM has been shown to be an adhesion molecule that binds laminin, a basement membrane protein involved in cell differentiation, adhesion, migration and proliferation. Over aa 1-541, mouse BCAM is 91% identical to rat BCAM.