Datasheet for ABIN7602976

# anti-BCAM antibody (Middle Region)

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## Overview

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| Quantity: | 100 µg |
| Target: | BCAM |
| Binding Specificity: | Middle Region |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This BCAM antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunofluorescence (IF) |

## Product Details

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| Purpose: | Anti-CD239/BCAM Antibody Picoband® |
| Immunogen: | A synthetic peptide corresponding to a sequence in the middle region of human CD239/BCAM, which shares 84.4% amino acid (aa) sequence identity with both mouse and rat CD239/BCAM. |
| Isotype: | IgG |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins. |
| Characteristics: | Anti-/BCAM Antibody (ABIN7602976). Tested in Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |

## Product Details

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| Purification: | Immunogen affinity purified. |

## Target Details

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| Target: | BCAM |
| Alternative Name: | BCAM (BCAM Products) |
| Background: | Synonyms: Basal cell adhesion molecule, Auberger B antigen, B-CAM cell surface glycoprotein, F8/G253 antigen, Lutheran antigen, Lutheran blood group glycoprotein, CD239, BCAM, LU, MSK19<br>Tissue Specificity: Wide tissue distribution (highest in the pancreas and very low in brain). Closely associated with the basal layer of cells in epithelia and the endothelium of blood vessel walls.<br>Background: Basal cell adhesion molecule, also known as Lutheran antigen, is a plasma membraneglycoprotein that in humans is encoded by the BCAM gene. It is mapped to 19q13.32. This gene encodes Lutheran blood group glycoprotein, a member of the immunoglobulin superfamily and a receptor for the extracellular matrix protein, laminin. The protein contains five extracellular immunoglobulin domains, a single transmembrane domain, and a short C-terminal cytoplasmic tail. This protein may play a role in epithelial cell cancer and in vaso-occlusion of red blood cells in sickle cell disease. Polymorphisms in this gene define some of the antigens in the Lutheran system and also the Auberger system. Inactivating variants of this gene result in the recessive Lutheran null phenotype, Lu (a-b-), of the Lutheran blood group. Two transcript variants encoding different isoforms have been found for this gene. |
| Molecular Weight: | 70 kDa |
| Gene ID: | 4059 |
| UniProt: | P50895 |

## Application Details

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| Application Notes: | Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat<br>Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human<br>Immunocytochemistry/Immunofluorescence, 2 µg/mL, Human<br>Flow Cytometry (Fixed), 1-3 µg/1x$10^6$ cells, Human<br>1. Campbell, I. G., Foulkes, W. D., Senger, G., Trowsdale, J., Garin-Chesa, P., Rettig, W. J. Molecular cloning of the B-CAM cell surface glycoprotein of epithelial cancers: a novel member of the immunoglobulin superfamily. Cancer Res. 54: 5761-5765, 1994. 2. Cook, P. J. L. The |

## Application Details

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| | Lutheran-secretor recombination fraction in man: a possible sex difference. Ann. Hum. Genet. 28: 393-401, 1965. 3. Daniels, G. L., Le Pennec, P. Y., Rouger, P., Salmon, C., Tippett, P. The red cell antigens Au(a) and Au(b) belong to the Lutheran system. Vox Sang. 60: 191-192, 1991. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Reconstitution: | Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL. |
| Concentration: | 500 µg/mL |
| Buffer: | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg $Na_2HPO_4$, 0.05 mg $NaN_3$. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles. |