RD SYSTEMS a biotechne brand

Human CEACAM-4 Antibody

Monoclonal Mouse IgG₁ Clone # 568410 Catalog Number: MAB4354

DESCRIPTION

| DESCRIPTION | | |
|--------------------|---|--|
| Species Reactivity | Human | |
| Specificity | Detects human CEACAM-4 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human CEACAM-1, -3 -5, -6, -7, or -8 is observed. | |
| Source | Monoclonal Mouse IgG ₁ Clone # 568410 | |
| Purification | Protein A or G purified from hybridoma culture supernatant | |
| Immunogen | <i>E. coli</i> -derived recombinant human CEACAM-4 Phe36-Val140 Accession # O75871 | |
| 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 | 2 μg/mL | See Below |
| Immunohistochemistry | 8-25 μg/mL | See Below |

Data

Western Blot



Detection of Human CEACAM-4 by Western Blot. Western blot shows lysates of HL-60 human acute promyelocytic leukemia cell line, THP-1 human acute monocytic leukemia cell line, IMR-90 human lung fibroblast cell line, NCI-H596 human lung adenosquamous carcinoma cell line, and human lung cancer tissue. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human CEACAM-4 Monoclonal Antibody (Catalog # MAB4354) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for CEACAM-4 at approximately 30 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



CEACAM-4 in Human Lung Cancer Tissue, CEACAM-4 was detected in immersion fixed paraffin-embedded sections of human lung cancer tissue using Mouse Anti-Human CEACAM-4 Monoclonal Antibody (Catalog # MAB4354) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to the cytoplasm of epithelial cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

| PREPARATION AND STORAGE | | |
|-------------------------|--|--|
| Reconstitution | Reconstitute at 0.5 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. 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

Carcinoembryonic antigen cell adhesion molecule 4 (CEACAM-4), also known as CGM7 and W236, is a 40 kDa transmembrane glycoprotein member of the CEACAM family of proteins. Its 209 amino acid extracellular domain contains one Ig-like V-type domain. CEACAM-4 is expressed on granulocytes as well as on B and T cell lymphoblastic leukemias. Mouse and rat orthologs of CEACAM-4 have not been described.

Rev. 2/7/2018 Page 1 of 1



Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373 Europe | Middle East | Africa TEL +44 (0)1235 529449