

## DESCRIPTION

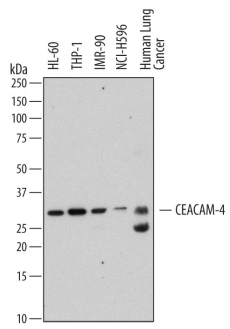
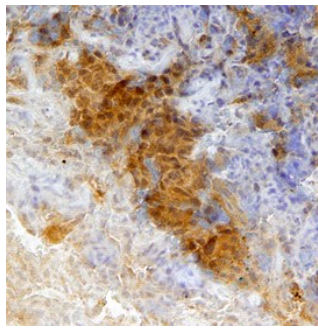
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CEACAM-4 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human CEACAM-1, -3, -5, -6, -7, or -8 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 568410
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human CEACAM-4 Phe36-Val140 Accession # O75871
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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
<b>Western Blot</b>	2 µg/mL	See Below
<b>Immunohistochemistry</b>	8-25 µg/mL	See Below

## DATA

<p><b>Western Blot</b></p>  <p><b>Detection of Human CEACAM-4 by Western Blot.</b> 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 adenocarcinoma 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 <a href="#">Immunoblot Buffer Group 1</a>.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>CEACAM-4 in Human Lung Cancer Tissue.</b> 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 &amp; 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 <a href="#">Chromogenic IHC Staining of Paraffin-embedded Tissue Sections</a>.</p>
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## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.