

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CEACAM-7 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 962720
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese Hamster Ovary cell line, CHO-derived recombinant human CEACAM-7 Thr36-Asn233 Accession # Q14002
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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
Flow Cytometry	0.25-1 µg/10 ⁶ cells	HEK293 Human Cell Line Transfected with Human CEACAM-7 and eGFP

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Carcinoembryonic antigen-related cell adhesion molecule 7 (CEACAM-7), also known as CGM2, is an approximately 40 kDa GPI-anchored glycoprotein in the CEACAM family of adhesion molecules (1). Mature human CEACAM-7 consists of two Ig-like domains followed by the GPI anchor (2). Alternative splicing generates a short isoform that lacks the second Ig-like domain. CEACAM-7 is preferentially expressed on the luminal surface of epithelial cells near the mouth of colonic crypts and on pancreatic ductal epithelial cells (3, 4). It is down-regulated during colorectal adenoma progression (2-6) but can be up-regulated during the development of gastric carcinoma (7). R&D Systems in-house testing indicates that CEACAM-7 binds to CEACAM-1, consistent with the heterophilic interaction of CEACAM-1 with other CEACAM family members (1, 8, 9).

References:

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3. Thompson, J. *et al.* (1997) *Cancer Res.* **57**:1776.
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5. Nollau, P. *et al.* (1997) *Cancer Res.* **57**:2354.
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