

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CEACAM-7 in direct ELISAs. Stains human CEACAM-7 transfected cells but not irrelevant transfectants.
Source	Monoclonal Mouse IgG ₁ Clone # 934660
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human CEACAM-7 Asn37-Phe142 Accession # Q14002
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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 embryonic kidney 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

CEACAM-7 (carcinoembryonic antigen cell adhesion molecule 7; also CGM2) is a 40-45 kDa member of the CEACAM subfamily of the CEA family of proteins. It has a restricted expression pattern, being found on epithelium of the colon, appendix and pancreatic ducts. It is markedly down-regulated in colon carcinoma. Mature human CEACAM-7 is a 209 amino acid (aa), GPI-linked glycoprotein. It contains one V-type (aa 36-142) and one C2-type (aa 146-233) Ig-like domain, plus a 21 aa C-terminal propeptide. One alternate splice form exists that shows a deletion of aa 143-235.

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