

Human CEACAM-7 Alexa Fluor® 700-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 962720

Catalog Number: FAB44782N 100 µg

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 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.		

AFFEIGATIONS	<u> </u>			
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	Sample		
	Concentration	·		
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. ■ 12 months from date of receipt, 2 to 8 °C as supplied.		

BACKGROUND

ADDI ICATIONS

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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- 4. Scholzel, S. *et al.* (2000) Am. J. Pathol. **156**:595.
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- 7. Zhou, J. et al. (2011) World J. Surgical Oncol. 9:172.
- 8. Markel, G. et al. (2004) J. Immunol. 173:3732.
- 9. Oikawa, S. et al. (1992) Biochem. Biophys. Res. Commun. **186**:881.

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Rev. 4/23/2018 Page 1 of 1

