Datasheet for ABIN238330

anti-CEACAM20 antibody

4 Images

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Overview

Quantity:	100 µg
Target:	CEACAM20
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CEACAM20 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Cell-ELISA (cELISA)

Product Details

Immunogen:	genetic immunisation with cDNA encoding human CEACAM20
Clone:	HT-12D8
Isotype:	IgG1
Purification:	Protein G

Target Details

Target:	CEACAM20
Alternative Name:	CEACAM20 (CEACAM20 Products)
Background:	CEA-related cell adhesion molecule 20 (CEACAM20) belongs to the carcinoembryonic antigen (CEA) gene family. It encodes a putative glycoprotein which is membrane-bound via a transmembrane domain. The CEACAM20 protein contains a single N domain followed by 4 immunoglobulin-like A (A1, A2) and B (B1, B2) domains. Expression of CEACAM20 can be found

Target Details

	in tissues of prostate, testis, duodenum and small intestine with highest expression in prostate. The function of CEACAM family members varies widely: they function as cell adhesion molecules, tumor suppressors, regulators of lymphocyte and dendritic cell activation, receptors of Neisseria species and other bacteria. High expression of CEACAM20 in tissue of prostate carcinoma and in prostate carcinoma cell lines suggest that CEACAM20 can be used as a tumor marker.
UniProt:	Q6UY09

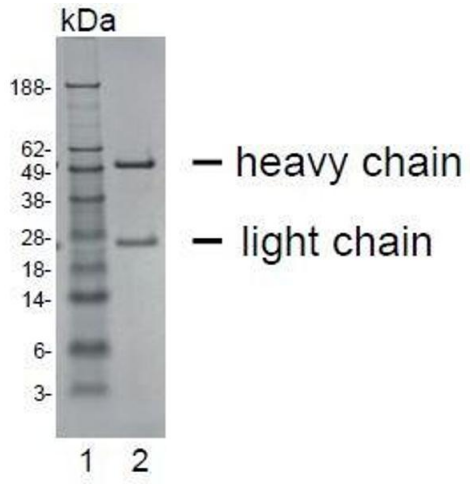
Application Details

Application Notes:	Flow cytometry: 1.2 µg/10^6 cells Immunofluorescence: 1 µg/10^6 cells CELISA: 1:200 - 1:400 For each application a titration should be performed to determine the optimal concentration.
Restrictions:	For Research Use only

Handling

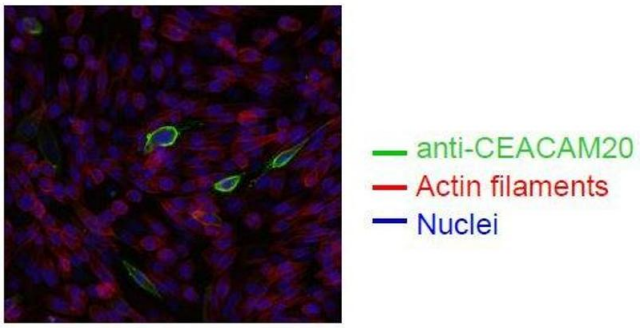
Buffer:	PBS, pH 7.2
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C
Storage Comment:	short term: 2 °C - 8 °C, long term: -20 °C

Images



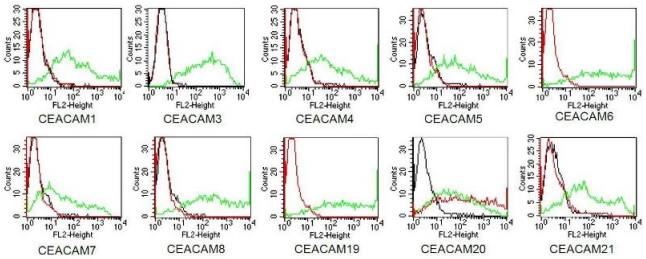
SDS-PAGE

Image 1. SDS-PAGE analysis of purified HT-12D8 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 µg of purified HT-12D8 antibody. Proteins were separated by SDS-PAGE and stained with RAPID StainTM Reagent.



Immunofluorescence

Image 2. Spectral Confocal Microscopy of CHO cells using HT-12D8. CHO cells were transiently transfected with an expression vector encoding CEACAM20. Binding of HT-12D8 was visualized with a FITC-conjugated secondary antibody (green). Actin filaments are labeled with Alexa Fluor-555 Phalloidin (red). Cell nuclei are stained with DAPI (blue).



Flow Cytometry

Image 3. BOSC23 cells were transiently transfected with expression vectors containing either the cDNA of CEACAM1, CEACAM3-8 or CEACAM19-21. Expression of the constructs was tested with monoclonal antibodies known to recognize the corresponding proteins (CEACAM1,3,4,5 and 6: D14HD11; CEACAM7: BAC2; CEACAM8: Tet2; CEACAM19,21: α-myc; CEACAM20: α-flag; green curves). An irrelevant monoclonal antibody served as a negative control (black curves). For specificity testing, protein G-purified HT-12D8 was tested on all CEACAM transfectants. A positive signal was obtained only with CEACAM20 transfected cells (red curve).

Please check the product details page for more images. Overall 4 images are available for ABIN238330.