

Product datasheet for **DM1230**

CEACAM19 Mouse Monoclonal Antibody [Clone ID: HY8H10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	HY8H10
Applications:	ELISA, FC, IF, WB
Recommended Dilution:	Cell based ELISA with intact, transiently transfected cells: 1/200-1/400. Flow cytometry: 1.2 µg/10 ⁶ cells.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Genetic immunisation with cDNA encoding Human CEACAM19.
Specificity:	Recognizes CEACAM19.
Formulation:	Phosphate buffered saline, pH 7.2 State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	carcinoembryonic antigen related cell adhesion molecule 19
Database Link:	Entrez Gene 56971 Human Q7Z692



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Background: CEA-related cell adhesion molecule 19 (CEACAM19) belongs to the carcinoembryonic antigen (CEA) gene family (1). It encodes a putative glycoprotein which is membrane-bound via a transmembrane domain. Like all members of the CEACAM family, the CEACAM19 protein is a single-pass type I membrane protein and consists of a single extracellular N domain. CEACAM19 expression is ubiquitous with highest expression in prostate, uterus, fetal brain, mammary gland, adrenal gland, skeletal muscle, small intestine, and kidney.

Synonyms: CEAL1

Note: **SDS-PAGE analysis:** The antibody was purified by protein G affinity chromatography from cell culture supernatants and verified by SDS-Page (Figure.4).

Protein Families: Transmembrane

Product images:

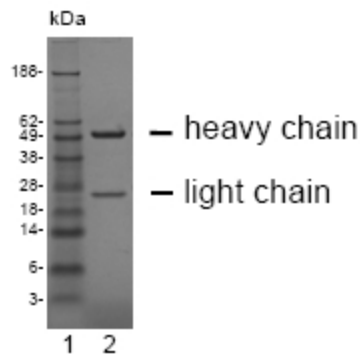


Figure.4: SDS-PAGE analysis of purified HY-8H10 monoclonal antibody. Lane 1: Molecular weight marker, Lane 2: 2 ug of purified HY-8H10 antibody. Proteins were separated by SDS-PAGE and stained with RAPID Stain™ Reagent.

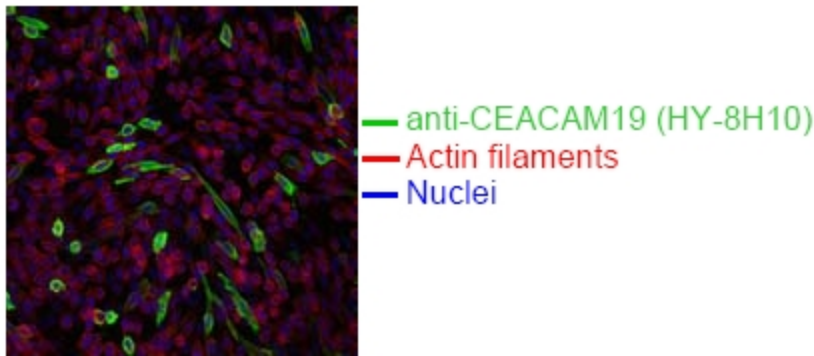


Figure.2: Spectral Confocal Microscopy of CHO cells using HY-8H10 antibody. CHO cells were transiently transfected with an expression vector encoding CEACAM19. Binding of HY-8H10 was visualized with a FITC-conjugated secondary antibody (green). Actin filaments are labeled with Alexa Fluor-555 Phalloidin (red). Cell nuclei are stained with DAPI (blue).

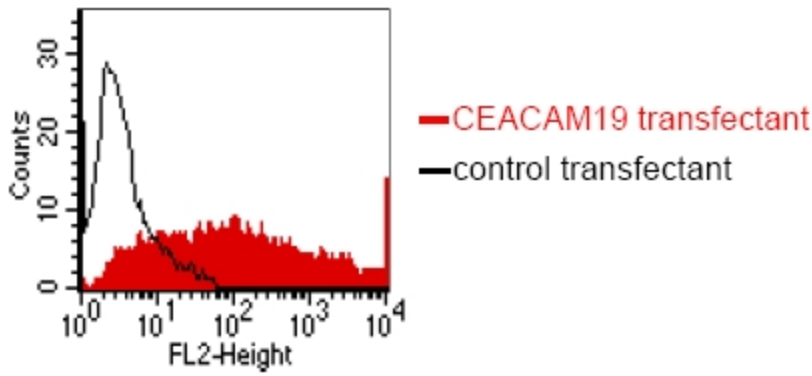


Figure.1: FACS analysis of BOSC23 cells using HY-8H10 antibody. BOSC23 cells were transiently transfected with an expression vector encoding either CEACAM19 (Red curve) or an irrelevant protein (control transfectant). Binding of HY-8H10 was detected with a PE conjugated secondary antibody. A positive signal was obtained only with CEACAM19 transfected cells.

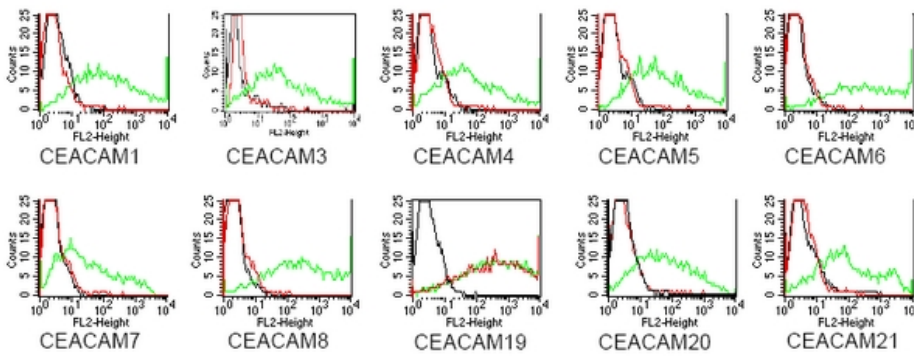


Figure.3: BOSC23 cells were transiently transfected with expression vectors containing either the cDNA of CEACAM1, CEACAM3-8 or CEACAM19-21. Expression of the constructs was tested with monoclonal antibodies known to recognize the corresponding proteins (CEACAM1, 3, 4, 5 and 6: D14HD11; CEACAM7: BAC2; CEACAM8:Tet2; green curves). An irrelevant monoclonal antibody served as a negative control (black curves). For specificity testing, protein G-purified HY-8H10 was tested on all CEACAM transfectants. A positive signal was obtained only with CEACAM19 transfected cells (red curve).