

DESCRIPTION

Target:	CEACAM5
Target aliases:	CD66e, CEA
Fc isotype:	IgG2a
Membrane proteome specificity:	Monospecific for 6,000 membrane proteins tested
Species reactivity:	Human (Others untested)
Extracellular epitope:	Yes
Fc modifications:	C-terminal Avitag ¹ , disabled Fc-γ receptor binding ²
Source:	Recombinant CHO expression; purified by Protein A chromatography
Formulation:	Endotoxin Free PBS pH 7.4, sterile-filtered
Concentration:	1 mg/ml

1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc-γ receptor binding site to minimize non-specific antibody binding.

CEACAM5 TARGET INFORMATION

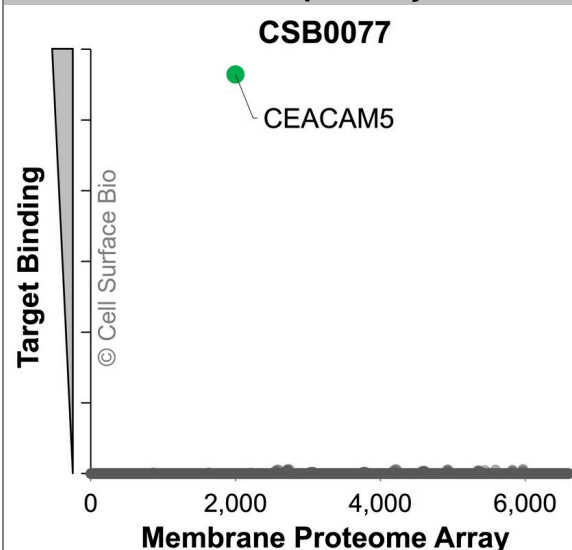
CEACAM5 is a lipid-anchored cell surface glycoprotein and part of the carcinoembryonic antigen (CEA) family. CEACAM5 is involved in cell adhesion through interactions with other members of the CEA family. CEACAM5 also promotes tumor development and is associated with gastrointestinal cancers. (NCBI Gene: 1048, UniProtKB/Swiss-Prot: P06731) Other names: CD66e, CEA

SHIPPING AND STORAGE

Shipping:	Shipped at ambient temperature. Store at 4°C.
Stability & Storage:	Stable for 12 months from date of receipt when stored at 4°C. Avoid repeated freeze-thaw cycles.

VALIDATION DATA

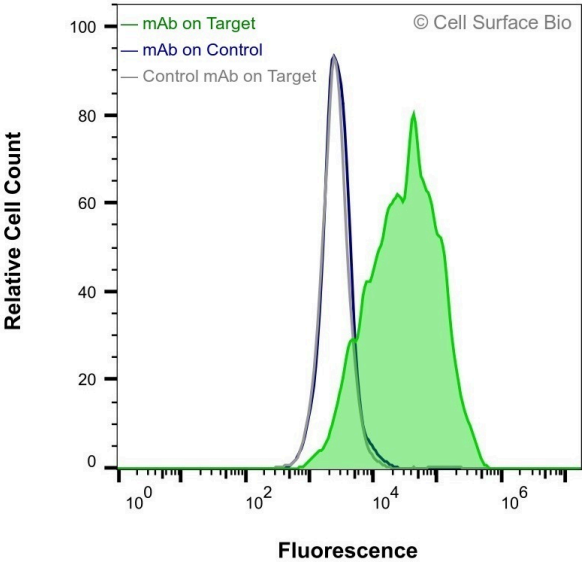
Membrane Proteome Specificity



The specificity of CEACAM5 Monoclonal Antibody (CSB0077) was tested on the Membrane Proteome Array™ and shown to be specific for CEACAM5.

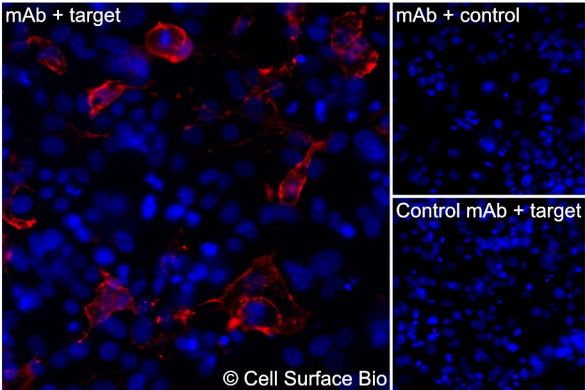
The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed human cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies and other protein ligands.

Applications	Conditions	Recommended concentration
Flow Cytometry, Extracellular	Live, Unpermeabilized	1 µg/ml



HEK-293F cells transiently transfected with CEACAM5 were stained with CEACAM5 Monoclonal Antibody (CSB0077) (green) or isotype control antibody (gray), followed by AlexaFluor 647- conjugated anti- IgG secondary antibody. HEK-293F cells transiently transfected with an empty control vector were also stained with CEACAM5 Monoclonal Antibody (CSB0077) (blue).

Applications	Conditions	Recommended concentration
Immunofluorescence, Extracellular	Fixed 4% paraformaldehyde	1 µg/ml



(Left) COS-7 cells transiently transfected CEACAM5 were stained with CEACAM5 Monoclonal Antibody (CSB0077) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) COS-7 cells transiently transfected with an empty control vector stained with CEACAM5 Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with CEACAM5 and stained with control MAb.

Applications

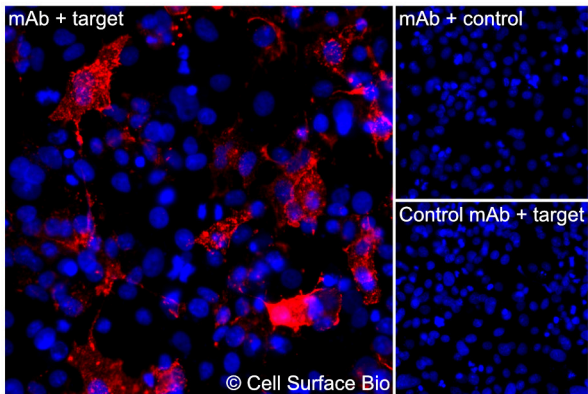
Immunofluorescence, Intracellular

Conditions

Fixed 4 % paraformaldehyde,
Permeabilized 0.1% Triton X-100

Recommended concentration

1 µg/ml



(Left) COS-7 cells transiently transfected CEACAM5 were permeabilized and stained with CEACAM5 Monoclonal Antibody (CSB0077) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) COS-7 cells transiently transfected with an empty control vector stained with CEACAM5 Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with {{target}} and stained with control MAb.