CEACAM1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CEACAM1, Monoclonal Antibody
Full Product Name	CEACAM1 (Carcinoembryonic Antigen-related Cell Adhesion Molecule 1, Biliary Glycoprotein 1, BGP1, BGP-1, BGP, BGPI, CD66a) (MaxLight 750)
Product Gene Name	anti-CEACAM1 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	2F10
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified
Specificity	Recognizes human CEACAM1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery o centrifuge the original vial prior to removing the cap.
Molecular Weight	39,871 Da
Immunogen	Partial recombinant protein corresponding to aa305-414 from human CEACAM1 (AAH14473) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	VTGCNRTTVKTIIVTELSPVVAKPQIKASKTTVTGDKDSVNLTCSTNDTGISIRWFFKNQSLPSSERMKLSQGNTTLSINPVKREDAGTYWCEVFNPISKNQ
Conjugate	MaxLight750
Product Categories/Family for anti-CEACAM1 antibody	Antibodies; Cancer Markers
Applications Tested/Suitable for anti-CEACAM1 antibody	FLISA
Application Notes for anti-CEACAM1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CEACAM1 antibody	CD66a is a member of the carcinoembryonic antigen (CEA) family and is expressed by hematopoietic cells. It is also expressed on apical membranes o epithelia, on endothelium of certain organs and on cells of myeloid lineage, granulocytes and myelocytes. Interestingly, it has been reported to be down in some cancers. This antibody will help detect CD66a expression in a variety of tissues.

Other Notes	Small volumes of anti-CEACAM1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If ne briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and add ice fee may apply.
Searchable Terms for CEACAM1 purchase	MBS6232097 is an antibody targeting CEACAM1. Also known as CEACAM1 (Carcinoembryonic Antigen-related Cell Adhesion Molecule 1, Biliary Glyc BGP1, BGP-1, BGP, BGPI, CD66a) (MaxLight 750). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CEACAM1. It may not necessarily be applicable to this product.

NCBI GI #	15680236
NCBI GeneID	634
NCBI Accession #	BC014473
NCBI Related Accession #	AAH14473
UniProt Secondary Accession #	O60430; Q069I7; Q13854; Q13857; Q13858; Q13859; Q13860; Q15600; Q15601; A6NE38; A8MY49
UniProt Related Accession #	P13688
NCBI Official Full Name	Homo sapiens carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein), mRNA
NCBI Official Synonym Full Names	carcinoembryonic antigen related cell adhesion molecule 1
NCBI Official Symbol	CEACAM1
NCBI Official Synonym Symbols	BGP; BGP1; BGPI
Protein Family	Carcinoembryonic antigen-related cell adhesion molecule
NCBI Protein Information	carcinoembryonic antigen-related cell adhesion molecule 1
NCBI Summary for CEACAM1	This gene encodes a member of the carcinoembryonic antigen (CEA) gene family, which belongs to the immunoglobulin superfamily. Two subgroups of the CEA family, the CEA cell adhesion molecules and the pregnancy-specific glycoproteins, are located within a 1.2 Mb cluster on the long arm of chromosome 19. Eleven pseudogenes of the CEA cell adhesion molecule subgroup are also found in the cluster. The encoded protein was originally described in bile ducts of liver as biliary glycoprotein. Subsequently, it was found to be a cell-cell adhesion molecule detected on leukocytes, epithelia, and endothelia. The encoded protein mediates cell adhesion via homophilic as well as heterophilic binding to other proteins of the subgroup. Multiple cellular activities have been attributed to the encoded protein, including roles in the differentiation and arrangement of tissue three-dimensional structure, angiogenesis, apoptosis, tumor suppression, metastasis, and the modulation of innate and adaptive immune responses. Multiple transcript variants encoding different isoforms have been reported, but the full-length nature of all variants has not been defined. [provided by RefSeq, May 2010]
Research Articles on CEACAM1	**1.** serum CEACAM1 is elevated over time in progressive melanoma patients who fail to respond to immunotherapy as opposed to responders and stable disease patients.
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