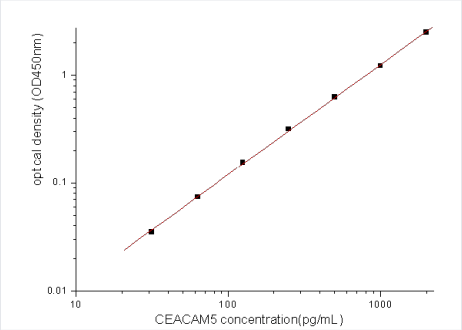
CEACAM5 ELISA Pair

PRODUCT OVERVIEW

Product Name	CEACAM5, ELISA Pair
Full Product Name	CEACAM5 Matched ELISA Antibody Pair Set, Human
Product Gene Name	CEACAM5 elisa pair
Product Synonym Names	Human CEACAM5/CD66e ELISA Pair Set; carcinoembryonic antigen-related cell adhesion molecule 5; CD66e Matched ELISA Antibody Pair Set, Human; CEA Matched ELISA Antibody Pair Set, Human
Assay Type	Solid Phase Sandwich ELISA
Detection Range	62.5-4000pg/mL
Sensitivity	62.5pg/ml
Specificity	Quantitative determination of Human CEACAM5
Preparation and Storage	Capture Antibody: Aliquot and store at -20 degree C to -80 degree C for up to 6 months from date of receipt. Avoid repeated freeze-thaw cycles. Detection Antibody: Store at 4 degree C and protect it from prolonged exposure to light for up to 6 months from date of receipt. DO NOT FREEZE! Standard: Store lyophilized standard at -20 degree C to -80 degree C for up to 6 months from date of receipt. Aliquot and store the reconstituted Standard at -80 degree C for up to 1 month. Avoid repeated freeze-thaw cycles.
Materials Provided	1. Capture Antibody 1 mg/mL of mouse anti-Human CEACAM5/CD66e monoclonal antibody (in PBS, pH 7.4). Dilute to a working concentration of 2ug/mL in PBS before coating. 2. Detection Antibody 0.2 mg/mL of mouse anti-Human CEACAM5/CD66e monoclonal antibody conjugated to horseradish-peroxidase (HRP) (in PBS, 50 % HRP-Protector, pH 7.4, store at 4 degree C). Dilute to working concentration of 0.3ug/mL in detection antibody dilution buffer before use. 3. Standard Each vial contains 70 ng of recombinant Human CEACAM5/CD66e. Reconstitute with 1 mL detection antibody dilution buffer. After reconstitution, store at -20 degree C to -80 degree C in a manual defrost freezer. A seven-point standard curve using 2-fold serial dilutions in sample dilution buffer, and a high standard of 4000 pg/mL is recommended.
Product Categories/Family for CEACAM5 elisa pair	Cancer Drug Targets
Related Product Information for CEACAM5 elisa pair	CEACAM5, also known as CEA or D66e, belongs to the large CEACAM subfamily of the immunoglobulin superfamily. CEACAM5 is expressed primarily by epithelial cells, and is synthesized as a glycoprotein with an MW of 180 kDa comprising 60% carbohydrate. CEACAM5 contains one Ig-like V-type domain at the N-terminus, followed by six Ig-like C2-type domains and a GPI anchor, and exists as a homodimer. CEACAM5 and CEACAM6 are overexpressed in many cancers and are associated with adhesion and invasion. CEACAM5 can mediate cell-cell adhesion through homotypic and heterotypic interactions. It functions as a homotypic intercellular adhesion molecule and serves as a widely used tumor marker, since it is expressed at higher levels in tumorous tissues than in corresponding normal tissues. CEACAM5 has also been shown to contribute to tumorigenicity by inhibiting cellular differentiation. In addition, CEACAM5 is identified as the host receptor for the Dr family of adhesins of E Coli, and the binding of E Coli Dr adhesins leads to dissociation of the CEACAM5 homodimer. This CEACAM5 Matched ELISA Antibody Pair Set, Human is a solid phase sandwich ELISA for quantitative determination of Human CEACAM5. It contains Human CEACAM5 capture antibody, Human CEACAM5 detector antibody (HRP) and a highly purified HEK293-expressed recombinant Human CEACAM5 protein.
Product References and Citations for CEACAM5 elisa pair	Baczyska D, et al. (2003) The tumorigenic potential of human CX-1 colon adenocarcinoma cells depends on carcinoembryonic antigen (CEACAM5) expression. Cell Mol Biol Lett. 8(2): 471-86. Blumenthal RD, et al. (2005) Inhibition of adhesion, invasion, and metastasis by antibodies targeting CEACAM6 (NCA-90) and CEACAM5 (Carcinoembryonic Antigen). Cancer Res. 65(19): 8809-17. Liebig B, et al. (2005) Forced expression of deltaN-TCF-1B in colon cancer derived cell lines is accompanied by the induction of CEACAM5/6 and mesothelin. Cancer Lett. 223(1): 159-67.

Other Notes	Small volumes of CEACAM5 elisa pair vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, 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 additional dry ice fee may apply.
Searchable Terms for CEACAM5 purchase	MBS8118348 is an ELISA pair targeting CEACAM5. Also known as CEACAM5 Matched ELISA Antibody Pair Set, Human.



Testing Data of CEACAM5 elisa pair

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CEACAM5. It may not necessarily be applicable to this product.

Protein Family	Carcinoembryonic antigen-related cell adhesion molecule
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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