Active Recombinant Human CEACAM5 protein, His-tagged

Cat. No. CEACAM5-517H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human CEACAM5 protein(P06731)(35~685 aa), fused with N-terminal His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	35-685 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Carcinoembryonic antigen (CEA), as one of the common tumor markers, is a human glycoprotein involved in cell adhesion and is expressed during human fetal development. Since the birth of human, CEA expression is largely inhibited, with only low levels in the plasma of healthy adults. Generally, CEA will overexpressed in many cancers, including gastric, breast, ovarian, lung, and pancreatic cancers, especially colorectal cancer. The lectin galactoside-binding soluble 3 binding protein (LGALS3BP) is also a secreted, which was first identified as cancer and metastasis associated protein. LGALS3BP has been identified as an interactor of CEA, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human CEA and recombinant human LGALS3BP. Briefly, biotin-linked CEA were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to LGALS3BP-coated microtiter wells and incubated for 1h at

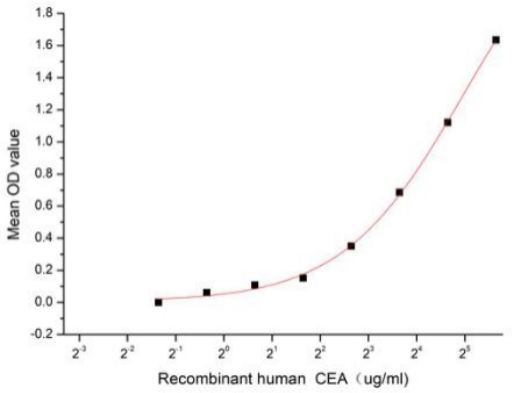
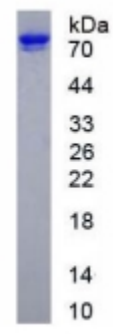
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	37°C. Wells were washed with PBST 3 times and incubation with Streptavidin-HRP for 30min, then wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µstop solution to the wells and read at 450 nm immediately. The binding activity of CEA and LGALS3BP was shown, and this effect was in a dose dependent manner.
Molecular Mass	73.0kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 95% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	CEACAM5 carcinoembryonic antigen-related cell adhesion molecule 5 [Homo sapiens]
Official Symbol	CEACAM5
Synonyms	CEACAM5; carcinoembryonic antigen-related cell adhesion molecule 5; CEA; CD66e; meconium antigen 100; DKFZp781M2392;
Gene ID	1048
mRNA Refseq	NM_004363

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Protein Refseq	NP_004354
MIM	114890
UniProt ID	P06731
Activity	
SDS-PAGE	

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