

Rev04  
 Update: Oct,19,2022

## DATASHEET

# Human CEA Antibody (1A5C3), mAb, Mouse

Cat. No.: A01786

## Overview

<b>Specificity</b>	CEA monoclonal antibodies (1A5C3 and 3C5C10) recognize human native CEA protein.
<b>Host Species</b>	Mouse
<b>Immunogen</b>	native CEA protein (Swiss-Prot: P06731)
<b>Conjugate</b>	Unconjugated

## Applications

Application	Recommended Usage
Sandwich ELISA	Capture: 1-10 µg/ml Detection: 0.05-0.2 µg/ml

These antibodies are perfect choice for in vitro diagnostic assay development. And they are prepared for non-clinical research use only. The recommended pairs are based on our laboratory results.

Detection	Capture	
	A01786 (1A5C3)	A01787 (3C5C10)
A01786 (1A5C3)		-
A01787 (3C5C10)	+	

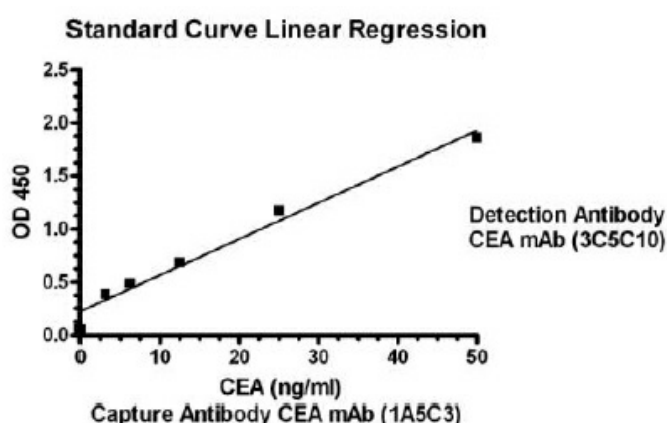
The above data was achieved by Sandwich ELISA. '+' means reaction and '-' means no reaction.  
 The number of '+' represents reaction intensity.

## Properties

<b>Form</b>	Liquid
<b>Storage Buffer</b>	in PBS buffer, pH 7.4, containing 0.02% sodium azide.
<b>Concentration</b>	0.5 mg/ml
<b>Storage Instructions</b>	For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

<b>Purification</b>	Protein A affinity column
<b>Isotype</b>	Mouse IgG1, $\kappa$
<b>Clonality</b>	Monoclonal
<b>Clone ID</b>	1A5C3

## Examples



Antibody pairs analysis of CEA monoclonal antibodies by Sandwich ELISA:

### General conditions:

1. Microplate was incubated with a capture antibody against CEA and blocked with PBS containing 1% BSA, followed by 3 washing cycles.
2. Incubation with CEA protein followed by 3 washing cycles.
3. Incubation with Biotin labeled detection antibody against CEA, followed by 3 washing cycles.
4. Incubation with Streptavidin-HRP, followed by 3 washing cycles.
5. Colorimetric determination of bound peroxidase activity.

## Background

**Target Background :** Carcinoembryonic antigen (CEA) is a complex glycoprotein of molecular weight 200 kDa. In healthy adults, less than 5 ng/ml of CEA is found in the serum. Elevation of CEA antigen is found in the blood of patients with cancer of the lung, liver, pancreas, breast, cervix, prostate and so on. CEA measurement is mainly used as a tumor marker to identify recurrences after surgical resection, or localize cancer spread through dosage of biological fluids. The CEA blood test is not reliable for diagnosing cancer. CEA levels may also be raised in some conditions like ulcerative colitis, pancreatitis and cirrhosis. GenScript Human CEA Antibody, mAb, Mouse is produced from the hybridoma resulting from fusion of SP2/0-Ag14 myeloma and B-lymphocytes obtained from mouse immunized with native human CEA protein (Swiss-Prot: P06731).

**Synonyms :** Human CEA Antibody (1A5C3), mAb, Mouse;

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**