

## Human CEA Antibody, mAb, Mouse

**Host:** Mouse

**Immunogen:** native CEA protein (Swiss-Prot: P06731)

**Purification:** Protein A affinity column

**Conjugation:** Unconjugated

**Version:** 11/14/2013

### Products information

Cat.No	Clone	Ig Subclass
A01786	1A5C3	IgG1, κ
A01787	3C5C10	IgG1, κ

### Description

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).

### Species Reactivity

CEA monoclonal antibodies (1A5C3 and 3C5C10) recognize human native CEA protein.

### Sensitivity

The limit of detection for antibody pair is less than 0.5 ng/ml.

### Product Buffer

PBS, pH 7.4, containing 0.02% sodium azide.

### Storage

**GenScript Human CEA Antibody, mAb, Mouse** should be stored at -20°C or below until use. Avoid repeated freezing and thawing cycles.

### Applications

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

ELISA Capture: 1-10 µg/ml

ELISA Detection: 0.05-0.2 µg/ml

Recommended antibody pairing for sandwich immunoassay:

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

\*\* For non-clinical research use only. \*\*

860 Centennial Ave., Piscataway, NJ 08854, USA

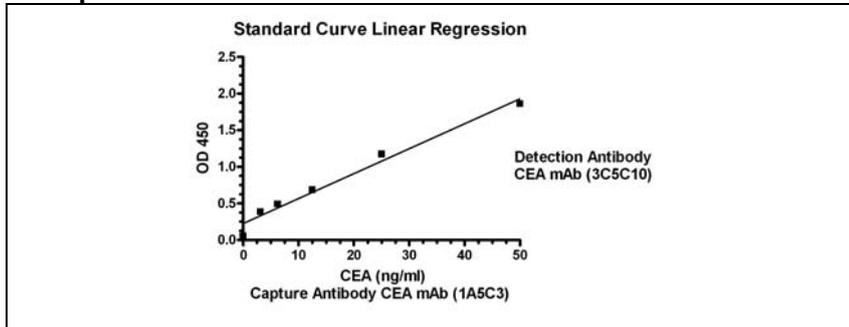
Toll-free Tel: 1-877-436-7274

Fax: 1-732-210-0262

Email: [product@genscript.com](mailto:product@genscript.com)

Web: [www.genscript.com](http://www.genscript.com)

## Example



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.

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