

Product Specification Sheet

**Human carcinoembryonic antigen antibody**

- Cat. # CEA11-M      Mouse Anti-human carcinoembryonic antigen (CEA) (clone 1)      SIZE: 500 ug
- Cat. # CEA12-M      Mouse Anti-human carcinoembryonic antigen (CEA) (clone 2)      SIZE: 500 ug

Carcinoembryonic antigen (CEA) is a glycoprotein involved in cell adhesion. It is normally produced during fetal development, but the production of CEA stops before birth. Therefore, it is not usually present in the blood of healthy adults, although levels are raised in heavy smokers.

It was found that serum from individuals with colorectal carcinoma,[2] gastric carcinoma, pancreatic carcinoma, lung carcinoma and breast carcinoma, as well as individuals with medullary thyroid carcinoma, had higher levels of CEA than healthy individuals. CEA measurement is mainly used as a tumor marker to identify recurrences after surgical resection. Elevated CEA levels should return to normal after surgical resection, as elevation of CEA during follow up is an indicator of recurrence of tumour. Regions of high CEA levels in the body can be detected with the monoclonal antibody arcitumomab. CEA levels may also be raised in some non-neoplastic conditions like ulcerative colitis, pancreatitis and cirrhosis.

**Source of Antigen and Antibodies**

<b>Antigen</b>	Purified human CEA protein
<b>Ab Host/type</b>	Mouse, monoclonal IgG1k (#CEA11-M) or IgG1k (CEA12-M) supplied Protein A/G purified IgG in PBS, ph 7.4, 0.05% azide at 1 mg/ml or see lot sp. concn
<b>2-ab</b>	<b>Goat Anti-mouse IgG-HRP conjugate Cat # 40120 (AP, biotin, FITC conjugates also available)</b>
<b>-ve control IgG</b>	Cat # 20008-1, Mouse (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as -ve control

**Form & Storage of Antibodies/Peptide Control**

**Affinity pure IgG**

- 100 ug/100ul     solution     lyophilized powder

Supplied in **Buffer**: PBS+0.05% azide

**Reconstitute powder** in PBS at 1mg/ml

**Storage**

**Short-term:** unopened, undiluted liquid vials at -20OC and powder at 4oC or -20oC..

**Long-term:** at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

**Stability:** 6-12 months at -20oC or below.

**Shipping:** 4oC for solutions and room temp for powder

**Recommended Usage**

Antibody is suitable for ELISA or RIA. Antibody dilution should be tested for a given application.

Clone 1 recommended for coating or capture and clone 2 as tracer for sandwich ELISA.

**Specificity & Cross-reactivity**

Antibodies are specific for CEA and no crossreactivity is seen with NCA, NCA2, BGPI.

**References:** Gold P (1965) J. Exp. Med. 121, 439; Hammarstrom S (1999) Seminar cancer Biol., 9, 67-81

\*This product is for In vitro research use only.

**Related material available from ADI**

Catalog#      ProdDescription

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- 1810 Human Ferritin ELISA Kit, 96 tests, Quantitative
- 1820 Human Ovarian Cancer (CA125) ELISA Kit, 96
- 1830 Human Ovarian Cancer (CA153) ELISA Kit, 96
- 1840 Human Pancreatic & GI Cancer (CA199) ELISA
- 0400 Human Chorionic Gonadotropin (HCG) ELISA
- 0410 Human Chorionic Gonadotropin (HCG-free
- 0500 Human Alpha Fetoprotein (AFP) ELISA Kit, 96
- 0600 Human Thyroid Stimulating Hormone (TSH)
- 0700 Human Sex Hormone Binding Glob (SHBG)

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