

Product Specification Sheet

Human carcinoembryonic antigen, Pure

Cat. # CEA15-N-100

Human carcinoembryonic antigen (CEA) antigen (pure)

SIZE: 100 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

CEA is purified from human meconium fluid using proprietary methods (>98%, ~90 Kda). It is supplied in 50 mM Tris Sodium citrate buffer, 2150 mM NaCl and pH 7.2, and 20% glycerol (see lot sp. conc on the vial). Bioburden is <10 CFU/ml. Store at 2-4oC for at least 12-months or frozen at -20oC in suitable aliquots. All human derived material has been tested negative for HIV, HCV, and HbSAg. Nevertheless, all precautions should be taken and samples be treated as potentially hazardous.

Shipping: 4oC for solutions and room temp for powder

Recommended Usage

Suitable for ELISA or as control in Western.

Antibodies to CEA and ELISA kits also available.

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 |
|----------|--------------------------------------------------|
| 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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