

## Human Cancer Antigen 19-9 (CA19-9)

**Cat#** CA1991-N-10

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**Size:** 10 KU

### Description

CA19-9 (carbohydrate antigen 19-9 or sialylated Lewis (a) antigen) is a blood test from the tumor marker category. It was discovered in patients with colon cancer and pancreatic cancer in 1981. Increased levels of CA19-9 are also found in non-malignant conditions, such as Mirizzi's syndrome and diseases of the bile ducts and liver. The molecular weight of CA19-9 of the patients with pancreas carcinoma was approximately 2000KDa, however those of the patients with liver disorder and diabetes mellitus were showed 2000KDa and round 700KDa.

The assay for Pancreatic and Gastro-Intestinal Cancer marker (PC-199) measures a carbohydrate antigenic determinant expressed on a high molecular weight mucin. This mucin type of glycoprotein is found in the area of pancreatic and colon and hepatocellular carcinomas. PC 19-9 (CA 199) is also related to the Lewis blood group substances and only serum antigen from cancer patients belonging to the Le (a+b-) or Le (ab+) blood group will be CA 19-9 positive.

The Pancreatic & Gastro-Intestinal (PC) assay may have two clinical applications:

1. To identify patients having gastric and pancreatic carcinomas.
2. To monitor therapy and tumor recurrence

### Source and properties of protein

Human CA19-9/CA199 antigen was purified from human fluids tested negative for HIV 1, HIV 2, HCV antibodies, HIV antigen and HBsAg. No test guarantees a product to be non-infectious. Therefore, all material derived from human fluids or tissues should be considered as potentially infectious. The protein is supplied in PBS, pH 7.4 and 0.05% azide. A typical lot has ~59000 U/ml (Elecsys 19-9 assay; Protein conc ~0.052 OD units).

The following contaminants were detected (CA125-, <2%; CA15-3 (<1%). It is supplied in PBS, pH 7.2, 0.05% azide or lyophilized in the same buffer (~150,000 units/ml (Centocor RIA) or ~125,000 units/ml (Elecsys). Lot specific conc is specified on the vial. reconstitute powder in PBS at a desired concn and store frozen at -20oC or below in suitable aliquots. Product is stable for at least 6 months.

### Suggested uses

Suitable for use in Western blot and RIA. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

**References:** Koporowski H (1981) Science 212, 53-55; Robertson A (2007) Eur. J. Gastroenterol. Hepatol. 19, 167-169;

For in vitro research use only

### Related Material available for ADI

AntibodyType	Catalog#	ProdDescription
Mouse-Mono CA125 (clone 1)	CA1251-M	Mouse Anti-human CA125
Antigen (CA 125)	CA1251-N-10	Ovarian Cancer
Mouse-Mono CA125 (clone 2)	CA1252-M	Mouse Anti-human CA125
Mouse-Mono Human cancer associated antigen CA153 (CA15-3) IgG #1	CA1531-M	Monoclonal Anti-human cancer associated antigen CA153 (CA15-3) IgG #1
Mouse-Mono Human cancer associated antigen CA153 (CA15-3) IgG #2	CA1532-M	Monoclonal Anti-human cancer associated antigen CA153 (CA15-3) IgG #2
Mouse-Mono Human cancer associated antigen CA153 (CA15-3) purified	CA153-N-10	Human cancer associated antigen CA153 (CA15-3) purified
Mouse-Mono Human Cancer Antigen 19-9 (CA199 or CA19-9) IgG # 1, aff pure	CA1991-M	Monoclonal Anti-human Cancer Antigen 19-9 (CA199 or CA19-9) IgG # 1, aff pure
Cancer Antigen (CA 19-9)	CA1991-N-10	Gastrointestinal
(CA 72-4)	CA7241-N-10	Gastric Cancer Antigen

### ELISA Kits

(CA125) ELISA Kit, 96 tests, Quantitative	1820	Human	Ovarian	Cancer
(CA153) ELISA Kit, 96 tests, Quantitative	1830	Human	Ovarian	Cancer
(CA199) ELISA Kit, 96 tests, Quantitative	1840	Human	Pancreatic & GI	Cancer

CA199-N-10

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