
Carcinoembryonic antigen (CEA) is well known as one of the tumor marker, but its specificity for cancer is not yet certified. However its usefulness in the clinical application has been appreciated. Especially, it is used as the important index in the cases after their surgical operation, during their chemotherapy and during their radiation therapy.

Measurement of blood CEA has been established with Parr's method, Z-gel method, sandwich method and antibody-coated paper disc method. We evaluated a radioimmuno-assay kit for CEA, which is based on a solid-phase method using antibody-coated plastic beads. This kit is simple technically and is able to determined with small sample as the fundamental studies. Also, their values in this method indicate higher than that in the antibody-coated paper disc method.

Blood CEA values in 200 normal cases and in 150 cases of digestive organ diseases with and without cancer were measured. These results are reported as the clinical application.