



CENTER FOR
CANCER
RESEARCH

Connecting the Cancer Community



• Innovative Science • Breakthrough Therapies • Clinical Advances

Cripto-1 as a potential diagnostic marker for cancer

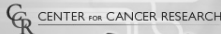
TEDCO/NIH/NCI Technology Showcase

Caterina Bianco
September 25, 2007



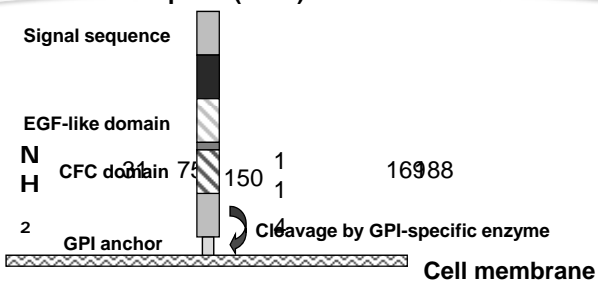

Technology Development Corporation





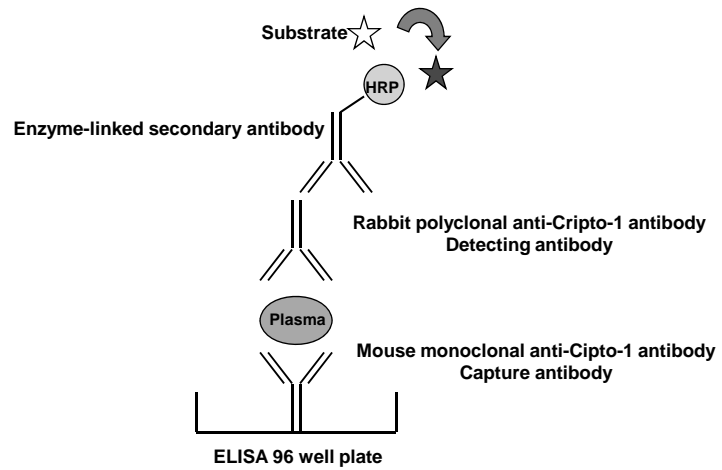
Background: Human Cripto-1 protein

Cripto-1 (CR-1)

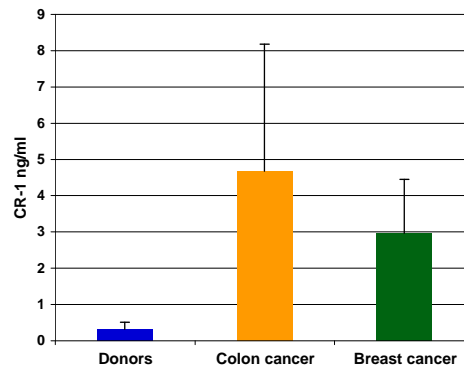
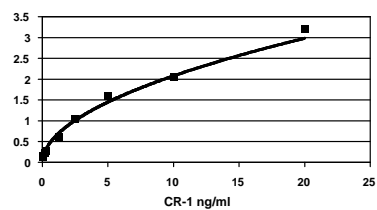


- Cell membrane anchored protein that can also be cleaved from the cell membrane
- Expressed at high levels in several different types of human tumors including breast, colon, lung, stomach, pancreas and ovarian cancer
- Expressed at very low levels in adult normal tissues

Sandwich ELISA for Cripto-1



Cripto-1 Sandwich ELISA applications: Detection of Cripto-1 in the plasma of cancer patients



Donors (n=21)

Colon cancer (n=33)

Breast cancer (n=54)

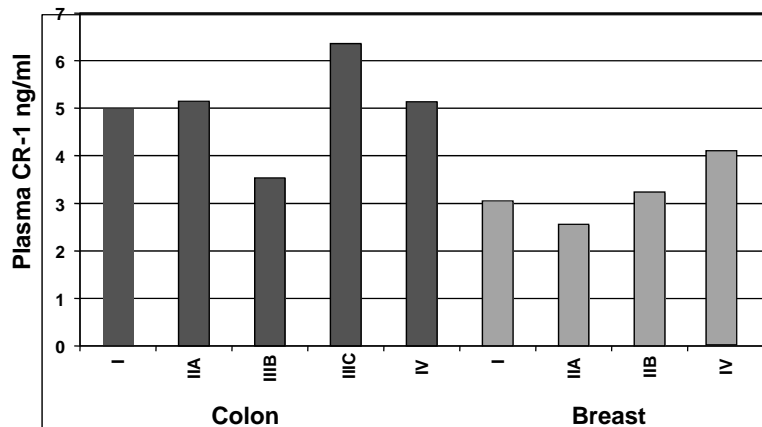
(ng/ml ± SD)

0.32 ± 0.19

4.68 ± 3.5

2.97 ± 1.48

Cripto-1 Sandwich ELISA applications: Detection of Cripto-1 in early stages of colon and breast cancer



Cripto-1 sandwich ELISA: Advantages



- Small samples required
- Fast and accurate: results in just few hours!
- Precision: determines the absolute amount of Cripto-1 present in the sample
- Versatile: measure human and mouse plasma, human milk, tissue extract ... and more!
- Economical and convenient: efficiently analyzes multiple samples
- 100% Specificity, 95% Sensitivity
- Standard curve range: 0.15 ng/ml-15ng/ml

*Cripto-1 Sandwich ELISA:
Commercial applications*



- Screening test for early detection of cancer
- Diagnosis of cancer
- Monitoring of cancer patient for recurrence
- Prediction of the outcome of the disease

Contact Information



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