



Human Metastasis-associated in colon cancer protein 1(MACC1) ELISA kit

Product Code	CSB-EL013298HU
Abbreviation	MACC1
Target Name	metastasis associated in colon cancer 1
Uniprot No.	Q6ZN28
Alias	7A5, SH3BP4L, OTTHUMP00000201891 putative binding protein 7a5
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	47 pg/mL-3000 pg/mL
Sensitivity	11.75 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cancer
Gene Names	MACC1
Tag Info	quantitative
Protein Description	Sandwich

Description

This human MACC1 ELISA kit employs the quantitative sandwich enzyme immunoassay technique to measure the levels of human MACC1 in multiple samples, including serum, plasma, tissue homogenates, or cell lysates. It also uses the enzyme-substrate chromogenic reaction to visualize and analyze the analyte levels through the color intensity. The intensity of the colored product is in direct proportion to the MACC1 levels in the sample and is measured at 450 nm through a microplate reader.

MACC1 has been reported to be overexpressed in multiple cancers including glioblastoma multiforme and gastric cancer and promotes proliferation, metastasis, cancer stem cell-like properties, and drug resistance of cancer cells. It is a potent prognostic biomarker inducing proliferation, migration, invasiveness, and metastasis of cancer cells. MACC1 promotes carcinogenesis, growth, and metastasis of colorectal cancer. Furthermore, MACC1 is linked to the promotion of tumor growth, invasion, and metastasis in gastric cancer, as well as poor prognosis in solid cancers.



Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human MACC1 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
	Average %	96
1:1	Range %	92-101
	Average %	84
1:2	Range %	80-88
	Average %	91
1:4	Range %	85-95
	Average %	98
1:8	Range %	94-102

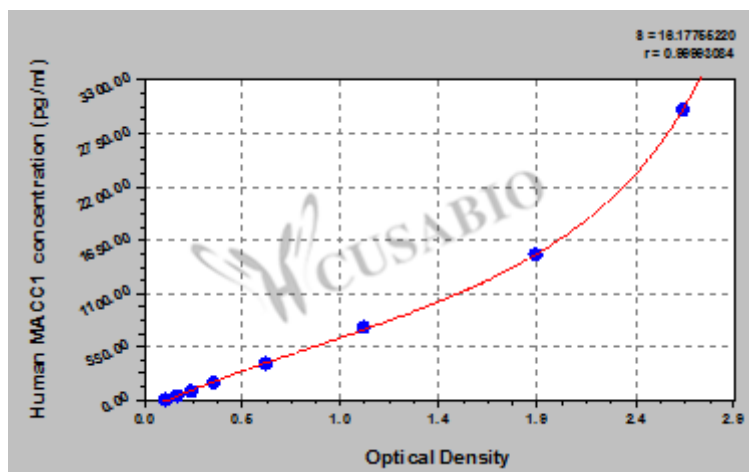
Recovery

The recovery of human MACC1 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	106	101-113
EDTA plasma (n=4)	86	82-90

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
3000	2.711	2.541	2.626	2.512
1500	1.955	1.874	1.915	1.801
750	1.044	1.105	1.075	0.961
375	0.588	0.612	0.600	0.486
187.5	0.353	0.340	0.347	0.233
94	0.236	0.253	0.245	0.131
47	0.178	0.169	0.174	0.060
0	0.111	0.117	0.114	?

Msds

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