

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

Catalog No: #EK9992

Package Size: #EK9992-1 48T #EK9992-2 96T

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Description

Product Name	Human Metastasis-associated in colon cancer protein 1 (MACC1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	7A5; SH3BP4L; OTTHUMP00000201891 putative binding protein 7a5
Accession No.	Q6ZN28
Uniprot	Q6ZN28
GeneID	346389;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.116 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate MACC1 in samples. An antibody specific for MACC1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMACC1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MACC1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MACC1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:MACC1 is a key regulator of the hepatocyte growth factor (HGF)-HGF receptor (HGFR, or MET) pathway, which is involved in cellular growth, epithelial-mesenchymal transition, angiogenesis, cell motility, invasiveness, and metastasis. Expression of MACC1 in colon cancer specimens is an independent prognostic indicator for metastasis formation and metastasis-free survival.The deduced 852-amino acid has an SH3 domain, a proline-rich motif for binding SH3 domain-containing proteins, additional binding motifs for SH2 and SH3 domain-containing proteins, EPS15 homology domains, clathrin and retinoblastoma protein (RB1) interaction domains, and putative tyrosine phosphorylation sites. It shares about 44% identity with SH3BP4, and putative orthologs were identified in chicken, mouse, rat, dog, and chimp.

Note: This product is for in vitro research use only