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Human mTOR (Mammalian Target of Rapamycin) CLIA Kit

Cat #: G-EC-00952

Species: Human

Sensitivity: 18.75pg/mL

Type: Sandwich

Range: 31.25~2000pg/mL

Detection: Chemiluminescence

Duration: 3.5h

Principle:
This CLIA kit uses the Sandwich-CLIA principle. The micro CLIA plate provided in this kit has been pre-coated with an antibody specific to Human mTOR. Standards or samples are added to the micro CLIA plate wells and combined with the specific antibody. Then a biotinylated detection antibody specific for Human mTOR and Avidin-Horseradish Peroxidase (HRP) conjugate are added successively to each micro plate well and incubated. Free components are washed away. The substrate solution is added to each well. Only those wells that contain Human mTOR, biotinylated detection antibody and Avidin-HRP conjugate will appear fluorescence. The Relative light unit (RLU) value is measured by the Chemiluminescence immunoassay analyzer. The RLU value is positively associated with the concentration of Human mTOR. You can calculate the concentration of Human mTOR in the samples by comparing the RLU value of the samples to the standard curve.

Specificity:
This kit recognizes Human mTOR in samples. No significant cross-reactivity or interference between Human mTOR and analogues was observed.

UniProt ID:

Gene: mTOR

Synonyms: FRAP1, RAFT1, RAPT1, Mechanistic target of rapamycin, FK506 binding protein 12-rapamycin associated protein 1

Specimen: Serum, plasma and other biological fluids

Application: This CLIA kit applies to the in vitro quantitative determination of Human mTOR concentrations in Serum, plasma and other biologica

Research Areas: Cancer, Cell Biology, Cardiovascular, Epigenetics and Nuclear Signaling, Metabolism

Storage:
An unopened kit can be stored at 2-8°C for 1 month. If the kit is not supposed to be used within 1 month, store the items separately according to the storage table in the manual once the kit is received.