# Human c-myc Oncogene product,c-myc ELISA Kit

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|---|---|
| **Product Code** | CSB-E09260h |
| **Abbreviation** | MYC |
| **Protein Biological Process 1** | Transcription/Transcription regulation |
| **Target Name** | v-myc myelocytomatosis viral oncogene homolog (avian) |
| **Uniprot No.** | P01106 |
| **Alias** | MRTL, bHLHe39, c-Myc, avian myelocytomatosis viral oncogene homolog\|myc proto-oncogene protein\|myc-related translation/localization regulatory factor\|v-myc avian myelocytomatosis viral oncogene homo |
| **Product Type** | ELISA Kit |
| **Immunogen Species** | Homo sapiens (Human) |
| **Protein Biological Process 3** | Transcription |
| **Sample Types** | serum, plasma, tissue homogenates, cell lysates |
| **Detection Range** | 0.312 ng/mL-20 ng/mL |
| **Sensitivity** | 0.078 ng/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** | Epigenetics and Nuclear Signaling |
| **Gene Names** | MYC |
| **Tag Info** | quantitative |
| **Protein Description** | Sandwich |
| **Description** | This Human MYC ELISA Kit was designed for the quantitative measurement of Human MYC protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL. |
| **Target Details** | This protein is a multifunctional, nuclear phosphoprotein that plays a role in cell cycle progression, apoptosis and cellular transformation. It functions as a transcription factor that regulates transcription of specific target genes. Mutations, overexpression, rearrangement and translocation of this gene have been associated with a variety of hematopoietic tumors, leukemias and lymphomas, including Burkitt lymphoma. There is evidence to show that |

alternative translation initiations from an upstream, in-frame non-AUG (CUG) and a downstream AUG start site result in the production of two isoforms with distinct N-termini. The synthesis of non-AUG initiated protein is suppressed in Burkitt s lymphomas, suggesting its importance in the normal function of this gene.

**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 c-myc 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) |
|---|---|---|
| 1:1 | Average % | 93 |
| | Range % | 87-99 |
| 1:2 | Average % | 95 |
| | Range % | 91-101 |
| 1:4 | Average % | 92 |
| | Range % | 88-96 |
| 1:8 | Average % | 90 |
| | Range % | 86-97 |

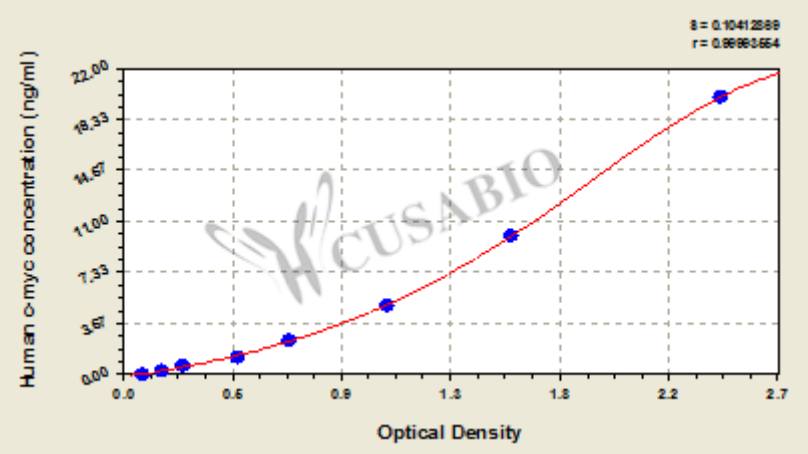
**Recovery**

The recovery of human c-myc 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) | 90 | 85-96 |
| EDTA plasma (n=4) | 92 | 87-97 |

**Typical**

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




| ng/ml | OD1 | OD2 | Average | Corrected |
|---|---|---|---|---|
| 20 | 2.404 | 2.453 | 2.429 | 2.341 |
| 10 | 1.587 | 1.575 | 1.581 | 1.493 |
| 5 | 1.084 | 1.066 | 1.075 | 0.987 |
| 2.5 | 0.658 | 0.699 | 0.679 | 0.591 |
| 1.25 | 0.456 | 0.487 | 0.472 | 0.384 |
| 0.625 | 0.251 | 0.245 | 0.248 | 0.160 |
| 0.312 | 0.161 | 0.169 | 0.165 | 0.077 |
| 0 | 0.087 | 0.089 | 0.088 | ? |

**Msds**

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E09260h.pdf","filename":"MSDS"}}