# Human Myelin-oligodendrocyte glycoprotein(MOG) ELISA kit

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|---|---|
| **Product Code** | CSB-EL014709HU |
| **Abbreviation** | MOG |
| **Protein Biological Process 1** | Cell Adhesion |
| **Target Name** | myelin oligodendrocyte glycoprotein |
| **Uniprot No.** | Q16653 |
| **Alias** | DAQB-92E24.2, MGC26137, MOGIG2, MOG Ig-AluB |
| **Product Type** | ELISA Kit |
| **Immunogen Species** | Homo sapiens (Human) |
| **Protein Biological Process 3** | Cell adhesion |
| **Sample Types** | serum, plasma, tissue homogenates |
| **Detection Range** | 15.6 pg/mL-1000 pg/mL |
| **Sensitivity** | 3.9 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** | Neuroscience |
| **Gene Names** | MOG |
| **Tag Info** | quantitative |
| **Protein Description** | Sandwich |
| **Description** | This Human MOG ELISA Kit was designed for the quantitative measurement of Human MOG protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 15.6 pg/mL-1000 pg/mL and the sensitivity is 3.9 pg/mL. |
| **Target Details** | The product of this gene is a membrane protein expressed on the oligodendrocyte cell surface and the outermost surface of myelin sheaths. Due to this localization, it is a primary target antigen involved in immune-mediated demyelination. This protein may be involved in completion and maintenance of the myelin sheath and in cell-cell communication. Alternatively spliced transcript |

variants encoding different isoforms have been identified.

**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 MOG 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 % | 96 |
| | Range % | 85-103 |
| 1:2 | Average % | 88 |
| | Range % | 81-99 |
| 1:4 | Average % | 95 |
| | Range % | 92-107 |
| 1:8 | Average % | 93 |
| | Range % | 86-100 |

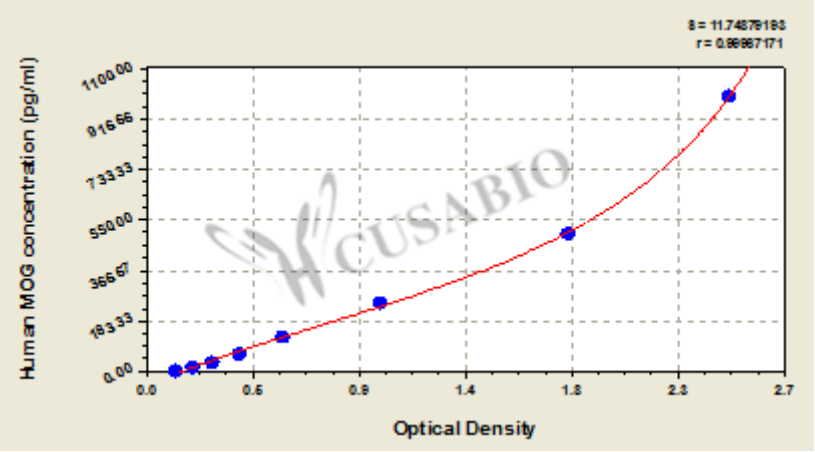
**Recovery**

The recovery of human MOG 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) | 98 | 93-102 |
| EDTA plasma (n=4) | 96 | 91-100 |

**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 |
|---|---|---|---|---|
| 1000 | 2.523 | 2.464 | 2.494 | 2.357 |
| 500 | 1.822 | 1.795 | 1.809 | 1.672 |
| 250 | 0.986 | 1.025 | 1.006 | 0.869 |
| 125 | 0.608 | 0.582 | 0.595 | 0.458 |
| 62.5 | 0.412 | 0.403 | 0.408 | 0.271 |
| 31.2 | 0.290 | 0.295 | 0.293 | 0.156 |
| 15.6 | 0.211 | 0.204 | 0.208 | 0.071 |
| 0 | 0.141 | 0.133 | 0.137 | |

**Msds**

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL014709HU.pdf","filename":"MSDS"}}