

## Human MUC2 ELISA Kit | MUC2 elisa kit

Human MUC2 (Mucin 2) ELISA Kit

CATALOG #  
**AAA21703**

REACTIVITY  
**Human**

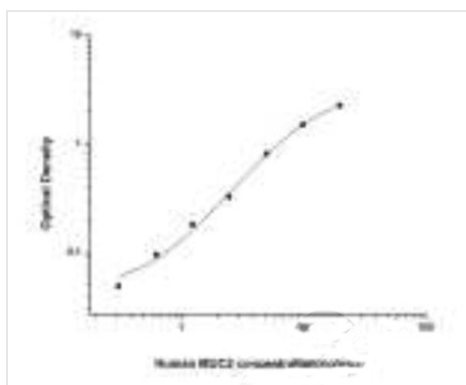
### PRODUCT SYNONYMS

MUC2; Human MUC2 (Mucin 2) ELISA Kit; MUC2 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                   |
| Specificity             | This kit recognizes Human MUC2 in samples. No significant cross-reactivity or interference between Human MUC2 and analogues was observed                                                |
| Sequence Length         | 5179                                                                                                                                                                                    |
| Assay Type              | Quantitative Sandwich                                                                                                                                                                   |
| Samples                 | Serum, plasma and other biological fluids                                                                                                                                               |
| Detection Range         | 0.31-20 ng/mL                                                                                                                                                                           |
| Sensitivity             | 0.19 ng/mL                                                                                                                                                                              |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, mid range and high level Human MUC2 were tested 20 times on one plate, respectively.                             |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, mid range and high level Human MUC2 were tested on 3 different plates, 20 replicates in each plate, respectively. |
| Preparation and Storage | Store at 4 degree C.                                                                                                                                                                    |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Related Product Information for MUC2 elisa kit | <p>Principle of the Assay: This ELISA kit uses the Sandwich-ELISA principle. The micro ELISA plate provided in this kit has been pre-coated with an antibody specific to Human MUC2. Samples (or Standards) are added to the micro ELISA plate wells and combined with the specific antibody. Then a biotinylated detection antibody specific for Human MUC2 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 MUC2, biotinylated detection antibody and Avidin-HRP conjugate will appear blue in color. The enzyme-substrate reaction is terminated by the addition of stop solution and the color turns yellow. The optical density (OD) is measured spectrophotometrically at a wavelength of 450 ± 2 nm. The OD value is proportional to the concentration of Human MUC2. You can calculate the concentration of Human MUC2 in the samples by comparing the OD of the samples to the standard curve.</p> <p>Intended Uses: This ELISA kit applies to the in vitro quantitative determination of Human MUC2 concentrations in serum, plasma and other biological fluids.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                               |
|----------------------------------|-------------------------------------------------------------------------------|
| NCBI GI #                        | 557129045                                                                     |
| NCBI GeneID                      | 4583                                                                          |
| NCBI Accession #                 | NP_002448.3                                                                   |
| NCBI GenBank Nucleotide #        | NM_002457.3                                                                   |
| UniProt Accession #              | Q02817; Q14878                                                                |
| Molecular Weight                 | 540,300 Da                                                                    |
| NCBI Official Full Name          | mucin-2                                                                       |
| NCBI Official Synonym Full Names | mucin 2, oligomeric mucus/gel-forming                                         |
| NCBI Official Symbol             | MUC2                                                                          |
| NCBI Official Synonym Symbols    | MLP; SMUC; MUC-2                                                              |
| NCBI Protein Information         | mucin-2; intestinal mucin-2; mucin 2, intestinal/tracheal; mucin-like protein |
| UniProt Protein Name             | Mucin-2                                                                       |
| UniProt Gene Name                | <b>MUC2</b>                                                                   |
| UniProt Synonym Gene Names       | SMUC; MUC-2                                                                   |
| UniProt Entry Name               | MUC2_HUMAN                                                                    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.