

# HUMAN MONOCLONAL ANTIBODIES AGAINST SARS-COV-2 SPIKE PROTEIN

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T-019454

**Species:** Human

**Target:** SARS-CoV-2 spike protein

**Applications:**

- **Research tool** - western blot, flow cytometry, ELISA, neutralization assays
- **Diagnostics** – antigen detection assay for COVID-19 infection
- **Vaccine development**

**Description:** Ten recombinant fully human monoclonal antibodies that recognize SARS-CoV-2 spike protein (data below).

**Related Web Links:** [Ellebedy Profile](#); [Ellebedy Lab](#)

### Available Antibodies

| mAb name     | Ag    | 30.0000 | 10.0000 | 3.3333 | 1.1111 | 0.3704 | 0.1235 | 0.0412 | 0.0137 | 0.0046 | 0.0015 | 0.0005 | 0.0002 | µg/mL mAb: |
|--------------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
| 350.5.3.1A06 | RBD   | 2.385   | 2.311   | 2.257  | 2.296  | 2.306  | 1.935  | 1.442  | 0.77   | 0.306  | 0.14   | 0.073  | 0.061  |            |
|              | Spike | 2.363   | 2.175   | 2.123  | 2.095  | 1.982  | 1.875  | 1.419  | 0.768  | 0.328  | 0.152  | 0.078  | 0.058  |            |
|              |       | 1.961   | 1.868   | 1.851  | 1.726  | 1.424  | 1.081  | 0.622  | 0.249  | 0.113  | 0.066  | 0.048  | 0.045  |            |
|              |       | 1.955   | 1.916   | 1.781  | 1.697  | 1.431  | 0.939  | 0.561  | 0.632  | 0.328  | 0.143  | 0.08   | 0.055  |            |
|              | BSA   | 0.178   | 0.06    | 0.05   | 0.044  | 0.063  | 0.052  | 0.397  | 0.043  | 0.044  | 0.049  | 0.136  | 0.049  |            |
|              |       | 0.071   | 0.266   | 0.044  | 0.042  | 0.05   | 0.06   | 0.071  | 0.044  | 0.045  | 0.047  | 0.044  | 0.046  |            |
| 350.5.3.1C11 | RBD   | 2.012   | 2.052   | 1.993  | 1.846  | 1.88   | 1.67   | 1.112  | 0.587  | 0.241  | 0.115  | 0.067  | 0.058  |            |
|              | Spike | 2.057   | 1.896   | 1.892  | 1.838  | 1.789  | 1.656  | 1.08   | 0.505  | 0.232  | 0.145  | 0.141  | 0.09   |            |
|              |       | 1.766   | 1.71    | 1.607  | 1.621  | 1.49   | 1.296  | 0.746  | 0.327  | 0.144  | 0.071  | 0.057  | 0.052  |            |
|              |       | 1.767   | 1.748   | 1.667  | 1.665  | 1.547  | 1.294  | 0.772  | 0.351  | 0.145  | 0.077  | 0.053  | 0.046  |            |
|              | BSA   | 0.111   | 0.053   | 0.05   | 0.043  | 0.043  | 0.043  | 0.042  | 0.045  | 0.049  | 0.046  | 0.046  | 0.051  |            |
|              |       | 0.094   | 0.049   | 0.05   | 0.047  | 0.043  | 0.042  | 0.046  | 0.043  | 0.044  | 0.044  | 0.047  | 0.051  |            |
| 350.5.3.1C08 | RBD   | 2.083   | 2.007   | 2.052  | 1.912  | 1.862  | 1.453  | 0.869  | 0.405  | 0.175  | 0.093  | 0.059  | 0.05   |            |
|              | Spike | 1.955   | 1.923   | 1.96   | 1.817  | 1.669  | 1.368  | 0.85   | 0.356  | 0.165  | 0.088  | 0.063  | 0.048  |            |
|              |       | 2.089   | 1.986   | 2.073  | 2.053  | 1.853  | 1.616  | 1.074  | 0.486  | 0.206  | 0.109  | 0.067  | 0.052  |            |
|              |       | 2.084   | 2.021   | 1.988  | 1.99   | 1.904  | 1.597  | 1.004  | 0.537  | 0.227  | 0.112  | 0.068  | 0.057  |            |
|              | BSA   | 0.062   | 0.05    | 0.042  | 0.043  | 0.042  | 0.044  | 0.055  | 0.042  | 0.047  | 0.04   | 0.041  | 0.047  |            |
|              |       | 0.068   | 0.048   | 0.043  | 0.052  | 0.043  | 0.043  | 0.06   | 0.041  | 0.042  | 0.041  | 0.042  | 0.043  |            |
| 350.5.3.2A01 | RBD   | 1.489   | 1.431   | 1.136  | 0.895  | 0.45   | 0.191  | 0.101  | 0.064  | 0.051  | 0.052  | 0.047  | 0.048  |            |
|              | Spike | 1.533   | 1.286   | 1.002  | 0.707  | 0.373  | 0.178  | 0.09   | 0.059  | 0.056  | 0.049  | 0.047  | 0.047  |            |
|              |       | 1.055   | 0.891   | 0.552  | 0.307  | 0.277  | 0.086  | 0.067  | 0.048  | 0.047  | 0.053  | 0.043  | 0.043  |            |
|              |       | 0.979   | 0.719   | 0.556  | 0.352  | 0.176  | 0.09   | 0.068  | 0.05   | 0.061  | 0.049  | 0.044  | 0.043  |            |
|              | BSA   | 0.074   | 0.049   | 0.261  | 0.045  | 0.046  | 0.045  | 0.047  | 0.048  | 0.281  | 0.047  | 0.046  | 0.046  |            |
|              |       | 0.073   | 0.051   | 0.049  | 0.047  | 0.051  | 0.045  | 0.043  | 0.044  | 0.045  | 0.046  | 0.046  | 0.045  |            |


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|---------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>350.5.3.2B06</b> | <b>RBD</b>   | 2.167 | 2.126 | 2.115 | 2.069 | 2     | 1.909 | 1.355 | 0.784 | 0.342 | 0.179 | 0.088 | 0.117 |
|                     |              | 2.128 | 2.315 | 2.086 | 1.994 | 1.97  | 1.705 | 1.274 | 0.687 | 0.316 | 0.142 | 0.083 | 0.058 |
|                     | <b>Spike</b> | 1.942 | 1.987 | 2.261 | 2.272 | 1.796 | 1.632 | 1.238 | 0.67  | 0.331 | 0.154 | 0.094 | 0.06  |
|                     |              | 2.025 | 2.114 | 1.998 | 1.94  | 1.842 | 1.619 | 1.165 | 0.633 | 0.28  | 0.134 | 0.073 | 0.053 |
|                     | <b>BSA</b>   | 0.105 | 0.08  | 0.057 | 0.333 | 0.047 | 0.047 | 0.045 | 0.044 | 0.047 | 0.045 | 0.044 | 0.054 |
|                     |              | 0.102 | 0.173 | 0.048 | 0.044 | 0.049 | 0.05  | 0.045 | 0.043 | 0.045 | 0.048 | 0.043 | 0.052 |

|                     |              |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>350.5.3.2C06</b> | <b>RBD</b>   | 2.204 | 2.13  | 2.071 | 1.697 | 1.164 | 0.554 | 0.241 | 0.113 | 0.069 | 0.063 | 0.058 | 0.047 |
|                     |              | 2.07  | 1.989 | 1.915 | 1.579 | 1.027 | 0.526 | 0.3   | 0.107 | 0.066 | 0.061 | 0.05  | 0.047 |
|                     | <b>Spike</b> | 2.043 | 1.943 | 1.874 | 1.523 | 0.889 | 0.433 | 0.193 | 0.099 | 0.056 | 0.059 | 0.043 | 0.053 |
|                     |              | 2.076 | 1.968 | 1.85  | 1.583 | 1.032 | 0.454 | 0.2   | 0.115 | 0.07  | 0.055 | 0.05  | 0.05  |
|                     | <b>BSA</b>   | 0.082 | 0.049 | 0.046 | 0.043 | 0.049 | 0.05  | 0.047 | 0.043 | 0.049 | 0.048 | 0.056 | 0.051 |
|                     |              | 0.092 | 0.048 | 0.047 | 0.042 | 0.041 | 0.041 | 0.061 | 0.041 | 0.043 | 0.042 | 0.042 | 0.042 |

|                     |              |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>350.5.3.2B04</b> | <b>RBD</b>   | 0.182 | 0.085 | 0.061 | 0.052 | 0.049 | 0.046 | 0.047 | 0.048 | 0.045 | 0.046 | 0.044 | 0.047 |
|                     |              | 0.17  | 0.078 | 0.061 | 0.051 | 0.049 | 0.046 | 0.048 | 0.047 | 0.047 | 0.048 | 0.049 | 0.052 |
|                     | <b>Spike</b> | 0.475 | 0.323 | 0.26  | 0.179 | 0.147 | 0.101 | 0.066 | 0.053 | 0.047 | 0.048 | 0.05  | 0.047 |
|                     |              | 0.486 | 0.308 | 0.242 | 0.202 | 0.217 | 0.096 | 0.068 | 0.056 | 0.052 | 0.051 | 0.045 | 0.051 |
|                     | <b>BSA</b>   | 0.154 | 0.076 | 0.055 | 0.049 | 0.046 | 0.047 | 0.044 | 0.048 | 0.043 | 0.045 | 0.042 | 0.048 |
|                     |              | 0.148 | 0.077 | 0.054 | 0.045 | 0.044 | 0.044 | 0.045 | 0.044 | 0.045 | 0.051 | 0.047 | 0.049 |

|                     |              |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>350.5.3.2H08</b> | <b>RBD</b>   | 0.229 | 0.089 | 0.064 | 0.053 | 0.049 | 0.047 | 0.044 | 0.044 | 0.047 | 0.05  | 0.049 | 0.046 |
|                     |              | 0.251 | 0.082 | 0.061 | 0.053 | 0.056 | 0.05  | 0.054 | 0.045 | 0.046 | 0.047 | 0.045 | 0.068 |
|                     | <b>Spike</b> | 0.384 | 0.302 | 0.224 | 0.18  | 0.134 | 0.081 | 0.059 | 0.052 | 0.047 | 0.048 | 0.049 | 0.052 |
|                     |              | 0.399 | 0.267 | 0.202 | 0.165 | 0.122 | 0.085 | 0.062 | 0.054 | 0.048 | 0.046 | 0.046 | 0.048 |
|                     | <b>BSA</b>   | 0.151 | 0.072 | 0.054 | 0.054 | 0.047 | 0.048 | 0.047 | 0.049 | 0.043 | 0.044 | 0.065 | 0.044 |
|                     |              | 0.157 | 0.073 | 0.053 | 0.051 | 0.047 | 0.052 | 0.045 | 0.048 | 0.045 | 0.046 | 0.046 | 0.047 |

|                     |              |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>350.5.7.1D10</b> | <b>RBD</b>   | 2.536 | 2.476 | 2.481 | 2.395 | 2.504 | 2.362 | 2.009 | 1.301 | 0.592 | 0.266 | 0.115 | 0.069 |
|                     |              | 2.476 | 2.347 | 2.459 | 2.427 | 2.4   | 2.292 | 1.873 | 1.095 | 0.506 | 0.195 | 0.092 | 0.061 |
|                     | <b>Spike</b> | 2.09  | 2.156 | 2.051 | 2.075 | 1.989 | 1.795 | 1.445 | 0.856 | 0.343 | 0.137 | 0.074 | 0.056 |
|                     |              | 2.027 | 2.043 | 2.059 | 2.095 | 1.92  | 1.819 | 1.351 | 0.752 | 0.321 | 0.14  | 0.075 | 0.054 |
|                     | <b>BSA</b>   | 0.062 | 0.048 | 0.046 | 0.047 | 0.043 | 0.048 | 0.048 | 0.046 | 0.043 | 0.045 | 0.044 | 0.043 |
|                     |              | 0.069 | 0.053 | 0.047 | 0.045 | 0.044 | 0.045 | 0.05  | 0.045 | 0.043 | 0.044 | 0.046 | 0.045 |

|                     |              |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>350.5.7.1F05</b> | <b>RBD</b>   | 2.498 | 2.463 | 2.413 | 2.394 | 2.371 | 2.239 | 2.022 | 1.425 | 0.724 | 0.319 | 0.146 | 0.085 |
|                     |              | 2.414 | 2.434 | 2.39  | 2.359 | 2.341 | 2.328 | 1.999 | 1.369 | 0.664 | 0.291 | 0.129 | 0.076 |
|                     | <b>Spike</b> | 2.178 | 2.095 | 2.059 | 2.006 | 1.986 | 1.817 | 1.529 | 0.885 | 0.386 | 0.156 | 0.082 | 0.09  |
|                     |              | 2.166 | 2.066 | 2.085 | 2.115 | 1.963 | 1.826 | 1.486 | 0.786 | 0.515 | 0.138 | 0.078 | 0.061 |
|                     | <b>BSA</b>   | 0.211 | 0.092 | 0.055 | 0.047 | 0.047 | 0.061 | 0.051 | 0.049 | 0.043 | 0.043 | 0.044 | 0.047 |
|                     |              | 0.259 | 0.116 | 0.058 | 0.05  | 0.052 | 0.085 | 0.049 | 0.048 | 0.043 | 0.083 | 0.044 | 0.052 |