NKMAX

Coronavirus Products

A brief overview of Coronavirus

Coronaviruses (CoV), named after their crown-like shape, were first identified in the 1960s and it belongs to the *Coronaviridae* family in the *Nidovirales* order. Coronaviruses are 65-125 nm in diameters in size and contain a single-stranded RNA (ssRNA) as a nucleic material, size ranging from 26 to 32 kbs in length. The subgroups of the coronaviruses family are alpha (α) and beta (β) coronavirus that can infect humans, and gamma (γ) and delta (δ) coronaviruses, which are found only in animals. Severe acute respiratory syndrome (SARS) and Middle East respiratory syndrome (MERS) belong to the B and C subclasses of β -coronavirus respectively and both can lead to fatal respiratory diseases. Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), Severe acute respiratory syndrome coronavirus (MERS-CoV) are zoonotic viruses that are highly pathogenic.

Coronavirus related Proteins and Antibodies

Recombinant Proteins

| | Product name | Protein domain | Species | Expression system | Tagging | Purity | Endotoxin Test | Bioactivity | Cat No. |
|------|----------------------------------|-------------------|------------|----------------------|----------|--------|-------------------|-------------|-------------|
| NEW | SARS-CoV Spike | 14-1195aa | SARS-CoV | Baculovirus | His | >85% | Р | Р | ATGP3967 |
| NEW | SARS-CoV Spike RBD | 306-515aa | SARS-CoV | HEK293 | His | >95% | Р | Р | ATGP3966 |
| | | 306-515aa | SARS-CoV | Baculovirus | His | >95% | Р | Р | ATGP3960 |
| NEW | SARS-CoV-2 (2019-nCoV) Spike S1 | 16-685aa | SARS-CoV-2 | HEK293 | His | >85% | Р | Р | ATGP3961 |
| NEW | SARS-CoV-2 (2019-nCoV) Spike RBD | 319-529aa | SARS-CoV-2 | HEK293 | His | >95% | Р | Р | ATGP3969 |
| | | 319-541aa | SARS-CoV-2 | HEK293 | His | >95% | Р | Р | ATGP3968 |
| | | 319-541aa | SARS-CoV-2 | Baculovirus | His | >95% | Р | Р | ATGP3962 |
| NEW | MERS-CoV Spike* | 18-1296aa | MERS-CoV | Baculovirus | His | >85% | Р | NA | ATGP3979 |
| NEW | MERS-CoV Spike S1* | 18-751aa | MERS-CoV | Baculovirus | His | >85% | Р | NA | ATGP3980 |
| NEW | MERS-CoV Spike S2* | 752-1296aa | MERS-CoV | Baculovirus | His | >85% | Р | NA | ATGP3981 |
| NEW | MERS-CoV Spike RBD* | 358-606aa | MERS-CoV | Baculovirus | His | >90% | Р | NA | ATGP3982 |
| NEW | ACE-2 | 18-740aa | Н | HEK293 | hlgG-His | >90% | Р | Р | ATGP3963 |
| | | 18-740aa | М | Baculovirus | His | >95% | Р | NA | ATGP3288 |
| | | 18-740aa | R | Baculovirus | His | >95% | Р | NA | ATGP3265 |
| | Neuropilin-1/NRP1 | 22-856aa | Н | Baculovirus | His | >90% | Р | NA | ATGP3769 |
| | | 22-855aa | Μ | Baculovirus | His | >90% | Р | NA | ATGP3360 |
| | | 22-856aa | R | Baculovirus | His | >90% | Р | NA | ATGP3362 |
| BEST | DPP4/CD26 | 39-766aa | Н | Baculovirus | His | >95% | Р | Р | DPP0901 |
| | Aminopeptidase N/CD13 | 33-966aa | М | Baculovirus | His | >95% | Р | Р | ATGP3925 |
| | Cathepsin B | 18-339aa | М | Baculovirus | His | >90% | Р | NA | ATGP3308 |
| | | 18-339aa | М | Baculovirus | His | >90% | Р | Р | ATGP3487 |
| | Cathepsin L | 18-333aa | Н | E.coli | His | >90% | NA | NA | ATGP2989(D) |
| BEST | | 18-333aa | Н | E.coli | His | >85% | Р | NA | ATGP3536 |
| - | | 18-334aa | М | Baculovirus | His | >90% | Р | NA | ATGP3318 |
| | BSG/CD147 | 22-207aa | Н | Baculovirus | hlgG-His | >90% | Р | NA | ATGP3737 |
| | Furin | 108-715aa | Н | E.coli | His | >85% | NA | NA | ATGP3028(D) |
| | Cyclophilin A/PPIA | 1-165aa | Н | E.coli | non | >95% | Р | Р | CYP0702 |
| | | 1-164aa | М | E.coli | His | >95% | NA | NA | ATGP2981 |
| | | 25-190aa | E.coli | E.coli | His | >95% | NA | NA | ATGP2983 |

Monoclonal Antibodies

| | Product Name | Clone No. | Applications | Isotype | Host | Cat No. |
|-----|---------------------|-----------|---------------------------|---------|------|----------|
| NEW | MERS-CoV Spike* | AT40G7 | ELISA, Neutralization | lgG1,k | М | ATGA0594 |
| | | AT23D3 | ELISA, Neutralization | lgG1,λ | М | ATGA0596 |
| | | AT25E4 | ELISA, Neutralization | lgG1,k | М | ATGA0597 |
| | | AT6E6 | ELISA | lgG1,k | М | ATGA0598 |
| | | AT43E4 | ELISA, Neutralization | lgG2b,k | М | ATGA0599 |
| | | AT14F8 | ELISA, Neutralization | lgG1,k | М | ATGA0600 |
| NEW | MERS-CoV Spike S2* | AT14H8 | ELISA, WB, Neutralization | lgG2b,k | М | ATGA0593 |
| NEW | MERS-CoV Spike RBD* | AT2F7 | ELISA, WB | lgG2b,k | М | ATGA0595 |
| | Cathepsin L | AT18F6 | ELISA, WB, FACS, ICC/IF | lgG2a,k | М | ACT0905 |

* Goo J, et al. Characterization of novel monoclonal antibodies against MERS-coronavirus spike protein. Virus Res. 2020 Mar;278:197863.

H: Human M: Mouse R: Rat P: Pass NA: Not Analyzed D: Denatured form

