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

