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Product Datasheet

Anti-2019-nCoV S1 mAb (5D9) EBT-EPT105

Article Name	Anti-2019-nCoV S1 mAb (5D9)
Biozol Catalog Number	EBT-EPT105
Supplier Catalog Number	EPT105
Alternative Catalog Number	EBT-EPT105-1
Manufacturer	ELK Biotechnology
Category	Proteine/Peptide
Product Description	Anti-2019-nCoV S1 mAb is a human monoclonal antibody human IgG1 and is produced by our Mammalian expression system....
Molecular Weight	Molecular weight: 48.9&24.2 KDa. Apparent molecular weight: 58&28 KDa, reducing conditions
Purity	Greater than 95% as determined by reducing SDS-PAGE.

Application Notes

Biological activity: Immobilized Anti-2019-nCoV S1 mAb (5D9) (CatNC025) at 5 μ g/ml (100 μ l/well) can bind 2019-nCoV S Protein RBD -His(CatDRA120). The ED50 of 2019-nCoV S Protein RBD (N501Y, C-6His)(CatDRA120) is 64.32 ng/ml. Background: Protein S (PROS1) is glycoprotein and expressed in many cell types supporting its reported involvement in multiple biological processes that include coagulation, apoptosis, cancer development and progression, and the innate immune response. Known receptors bind S1 are ACE2, angiotensin-converting enzyme 2, DPP4, CEACAM etc.. The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process. Most notable is severe acute respiratory syndrome (SARS). The severe acute respiratory syndrome-coronavirus (SARS-CoV) spike (S) glycoprotein alone can mediate the membrane fusion required for virus entry and cell fusion. It is also a major immunogen and a target for entry inhibitors. It's been reported that 2019-nCoV can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity