



碧云天生物技术/Beyotime Biotechnology  
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## SARS-CoV-2 N Protein Human Monoclonal Antibody (Clone B2)

产品编号	产品名称	包装
AF0503-50μg	SARS-CoV-2 N Protein Human Monoclonal Antibody (Clone B2)	50μg
AF0503-200μg	SARS-CoV-2 N Protein Human Monoclonal Antibody (Clone B2)	200μg
AF0503-1mg	SARS-CoV-2 N Protein Human Monoclonal Antibody (Clone B2)	1mg

### 产品简介:

来源	用途	交叉反应性	理论分子量	实际分子量
Human	WB, ELISA	SARS-CoV-2 (2019-nCoV)	48kDa	~48kDa

WB, Western blot; IP, Immunoprecipitation; IF, Immunofluorescence; IHC, Immunohistochemistry; ICC, Immunocytochemistry; FC, Flow Cytometry; ChIP, Chromatin Immunoprecipitation Assay; ChIP-seq, ChIP-sequencing.

H, Human; M, Mouse; R, Rat; C, Chicken; Cw, Cow; Dg, Dog; Gp, Guinea pig; Hm, Hamster; Hr, Horse; Mk, Monkey; Pg, Pig; Rb, Rabbit; S, Sheep; Z, Zebrafish; All, all species expected.

➤ 建议抗体使用时的稀释比例如下(实际使用时需根据抗原水平的高低作适当调整):

WB	IP	IF	IHC	ICC	FC	ChIP	ELISA
1-5μg/ml	-	-	-	-	-	-	0.1-5μg/ml

➤ 抗体详细信息如下:

About this Antibody	
Name	SARS-CoV-2 N Protein Human Monoclonal Antibody (Clone B2), SARS-CoV-2 N Protein hMAb (Clone B2)
Category	Human Monoclonal Antibody (mAb); Primary Antibody
Isotype	Human/IgG1
Purification method	Protein A
Positive samples	-
Cellular location	-
Customer validation	This antibody can pair with SARS-CoV-2 N Protein Human Monoclonal Antibody (Clone B1) (AF0501) as detection antibody for ELISA.
About the Immunogen	
Immunogen	-
Sequence	-
Gene ID	43740575
Swiss Prot	-
Synonyms	N protein; Nucleocapsid phosphoprotein; Nucleocapsid protein; N structural protein
Category	Anti-infection
Background	SARS-CoV-2 (Severe Acute Respiratory Syndrome Coronavirus 2) also known as 2019-nCoV (2019 Novel Coronavirus) is a virus that causes illnesses ranging from the common cold to severe diseases. SARS-CoV-2 Nucleocapsid Protein is associated with nucleic acid. It is the most abundant protein for coronavirus. Coronaviruses are enveloped viruses with a positive-sense RNA genome and with a nucleocapsid of helical symmetry. Coronavirus nucleoproteins localize to the cytoplasm and the nucleolus, a subnuclear structure, in both virus-infected primary cells and in cells transfected with plasmids that express N protein. Coronavirus N protein is required for coronavirus RNA synthesis and has RNA chaperone

activity that may be involved in template switch. Nucleocapsid protein is a most abundant protein of coronavirus. During virion assembly, N protein binds to viral RNA and leads to formation of the helical nucleocapsid. Nucleocapsid protein is a highly immunogenic phosphoprotein also implicated in viral genome replication and in modulating cell signaling pathways. Because of the strong immunogenicity of coronavirus Nucleocapsid, it is believed that SARS-CoV-2 Nucleocapsid Protein has potential value for the diagnosis of the virus.

➤ 本抗体的相关数据:

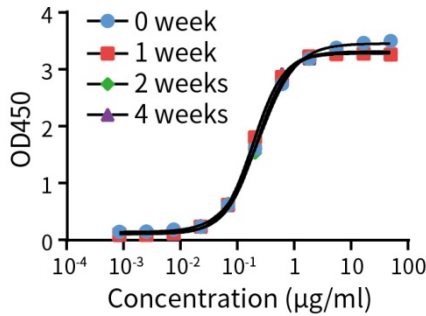


Figure 1. The antibody stability at room temperature was determined by functional ELISA. Immobilized 2019-nCoV Nucleocapsid Protein (新型冠状病毒 N 蛋白) (P2328) at 100ng/well can bind SARS-CoV-2 N Protein Human Monoclonal Antibody (Clone B2). After storing at room-temperature for 1 week, 2 weeks or 4 weeks, the EC50 of this antibody showed no significant change.

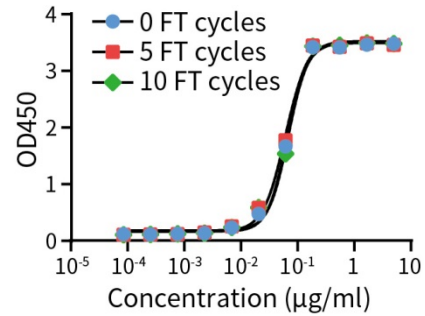


Figure 2. The repeated freeze-thaw (FT) stability of antibody was determined by functional ELISA. Immobilized 2019-nCoV Nucleocapsid Protein (新型冠状病毒 N 蛋白) (P2328) at 100ng/well can bind SARS-CoV-2 N Protein Human Monoclonal Antibody (Clone B2). After 10 freeze-thaw cycles, the EC50 of this antibody showed no significant change.

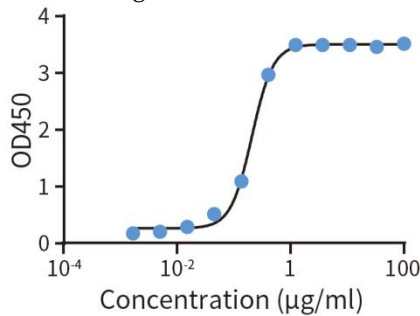


Figure 3. Immobilized 2019-nCoV Nucleocapsid Protein (新型冠状病毒 N 蛋白) (P2328) at 100ng/well can bind SARS-CoV-2 N Protein Human Monoclonal Antibody (Clone B2), and the EC50 is less than 0.21µg/ml.

包装清单:

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AF0503-50µg	SARS-CoV-2 N Protein Human Monoclonal Antibody (Clone B2)	50µg
AF0503-200µg	SARS-CoV-2 N Protein Human Monoclonal Antibody (Clone B2)	200µg
AF0503-1mg	SARS-CoV-2 N Protein Human Monoclonal Antibody (Clone B2)	1mg
—	说明书	1份

保存条件:

SARS-CoV-2 N Protein Human Monoclonal Antibody (Clone B2) 4°C保存, 至少一年有效。短期内不使用, 推荐-20°C保存, -20°C可以保存更长时间。

注意事项:

➤ 如果本抗体用于Western blot (WB)、免疫荧光(IF)、免疫细胞化学(ICC)等实验, 请注意回收使用过的稀释抗体。回收的抗体通

常至少可以重复使用5-10次。稀释后的抗体，包括已经使用过的稀释抗体，请4°C保存。

- 回收后重复使用的抗体，使用方法同新鲜稀释的抗体。如果在重复使用过程中发现抗体出现轻微混浊现象，可以10,000×g离心1-3分钟，取上清用于后续检测。如果回收的抗体出现明显的絮状物或长霉长菌等情况，则可以考虑废弃该抗体。
- 本产品仅限于专业人员的科学研究用，不得用于临床诊断或治疗，不得用于食品或药品，不得存放于普通住宅内。
- 为了您的安全和健康，请穿实验服并戴一次性手套操作。

## 使用说明：

请根据抗体的实际用途选择相应的使用方法。

### 1. Western检测：

- 按照推荐的稀释比例用碧云天提供的Western一抗稀释液稀释抗体。
- 把经过封闭的蛋白膜与稀释好的一抗4°C缓慢摇动过夜或室温缓慢摇动2小时，确保稀释的抗体至少能在摇动的瞬间覆盖蛋白膜。
- 回收稀释的一抗，4°C保存以备下次继续使用。
- 按照Western的实验步骤进行后续的洗涤、二抗孵育、洗涤和检测等操作。具体操作可以参考如下网页：  
<http://www.beyotime.com/support/western.htm>

### 2. 免疫染色：

可以使用碧云天生产的免疫染色一抗稀释液(P0103)稀释抗体，使用后注意回收稀释好的一抗，具体操作可以参考如下网页：<http://www.beyotime.com/support/immunol-staining.htm>

### 3. 其它实验操作请自行参考适当的protocol进行。

## 相关产品：

产品编号	产品名称	包装
AF0501-50µg	SARS-CoV-2 N Protein Human Monoclonal Antibody (Clone B1)	50µg
AF0501-200µg	SARS-CoV-2 N Protein Human Monoclonal Antibody (Clone B1)	200µg
AF0501-1mg	SARS-CoV-2 N Protein Human Monoclonal Antibody (Clone B1)	1mg
AF0503-50µg	SARS-CoV-2 N Protein Human Monoclonal Antibody (Clone B2)	50µg
AF0503-200µg	SARS-CoV-2 N Protein Human Monoclonal Antibody (Clone B2)	200µg
AF0503-1mg	SARS-CoV-2 N Protein Human Monoclonal Antibody (Clone B2)	1mg
AF0507-50µg	SARS-COV-2 Spike Protein (RBD) Human Monoclonal Antibody (Clone B7)	50µg
AF0507-200µg	SARS-COV-2 Spike Protein (RBD) Human Monoclonal Antibody (Clone B7)	200µg
AF0507-1mg	SARS-COV-2 Spike Protein (RBD) Human Monoclonal Antibody (Clone B7)	1mg
AF0509-50µg	SARS-COV-2 Spike Protein (RBD) Human Monoclonal Antibody (Clone B3)	50µg
AF0509-200µg	SARS-COV-2 Spike Protein (RBD) Human Monoclonal Antibody (Clone B3)	200µg
AF0509-1mg	SARS-COV-2 Spike Protein (RBD) Human Monoclonal Antibody (Clone B3)	1mg
AF0512-50µg	SARS-COV-2 RBD Neutralizing Antibody (Human IgG1)	50µg
AF0512-200µg	SARS-COV-2 RBD Neutralizing Antibody (Human IgG1)	200µg
AF0512-1mg	SARS-COV-2 RBD Neutralizing Antibody (Human IgG1)	1mg
AF0325	SARS-CoV-2 N Protein Polyclonal Antibody	50µl
AF2335-50µl	Angiotensin Converting Enzyme 2 Rabbit Monoclonal Antibody	50µl
AF2335-200µl	Angiotensin Converting Enzyme 2 Rabbit Monoclonal Antibody	200µl

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