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www.sinobiological.com

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**Sino Biological, Inc**

**The Global Leader
in Recombinant
Technology**

www.sinobiological.com

SINO BIOLOGICAL

www.sinobiological.com



The Global Leader in Recombinant Technology



Recombinant Proteins Antibodies cDNA Clones



ELISA Kits Cell Culture Medium CRO Service

Contact Us

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COMPANY PROFILE

Sino Biological

An internationally recognized reagent supplier and contract research organization, specializing in recombinant protein production and antibody development.

Main Facility: >355,220 sq ft

- 215,000 sq ft R&D Center
- 53,000 sq ft Clean Manufacturing Plant

Our Customers: 9,000+

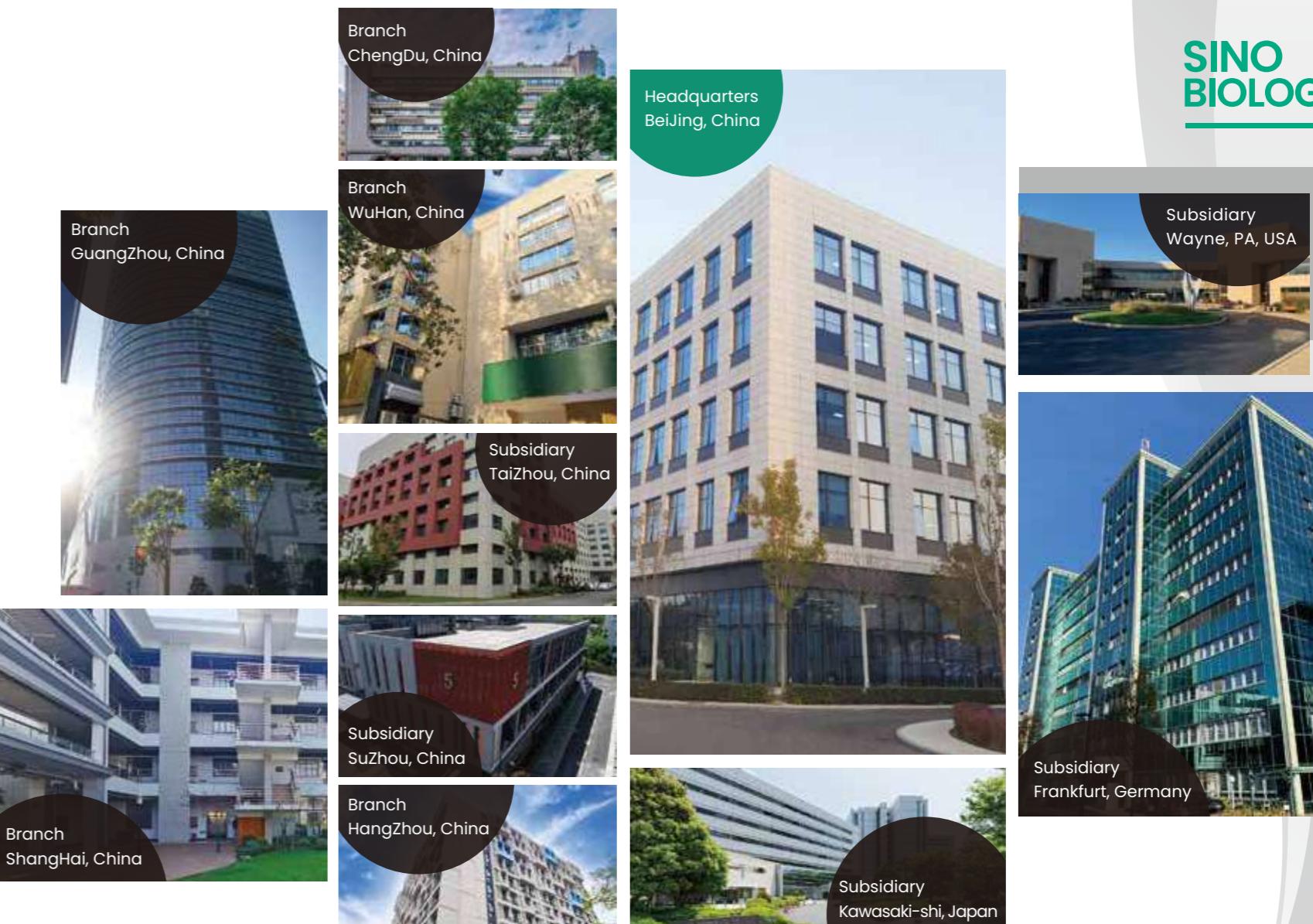
Our products and services are available in more than 90 countries, covering TOP20 Biopharmaceutical enterprise, Biotech companies, Academic research institutions, IVD Companies, and Hospitals

Our People: 1000+

Master or PhD Degree: 300+

Products in Stock: 72,000+

All Developed and Produced in House



“One-Stop” Reagent & CRO Service Provider

Reagent Bank

Comprehensive Collection of Catalog Products

- Independently Developed and Produced
- All in Stock



6,800+ Recombinant Proteins



14,000+ Elite Antibodies



48,000+ cDNA Clones



600+ ELISAs



Cell Culture Medium



SuperNuclease

Research Areas

- IVD Development
- Immunology Research
- Drug Discovery & Development
- Vaccine Development
- Structural Biology
- Epigenetics Research
- Stem Cell Research
- Cardiovascular Research
- Cell Biology Research
- Neuroscience Research
- Cancer Research
- Virus Research

CRO Services

Focused on the Recombinant Production of Antigens and Antibodies



Recombinant Antibody Production Services



Polyclonal Antibody Development Services



Recombinant Protein Expression Services

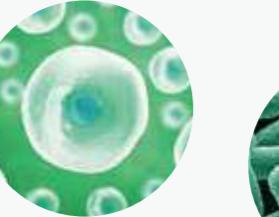


Monoclonal Antibody Development Services

12 Days: From Gene Synthesis to 100mg Eukaryotic Protein Production

Advanced Technology Platforms

Recombinant Production Platforms



HEK293/CHO
Transient system



E. coli System



Baculovirus-insect
System



CHO/HEK293 Stable Cell
Line Development



Cell-Free Protein
Synthesis System

Comprehensive Technical Capabilities

Cell Culture

Vector Construction

Quality Control Assay

Scale-up Production

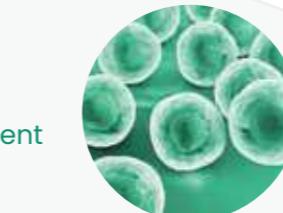
Antibody Screening

Immunization

Protein Purification



Mouse mAb Development
(Hybridoma)



Single B-cell
Based Platform



Rabbit mAb Development
(Phage Display)



Rabbit pAb
Development

Antibody Development Platforms

Multiple Antibody Development Technologies

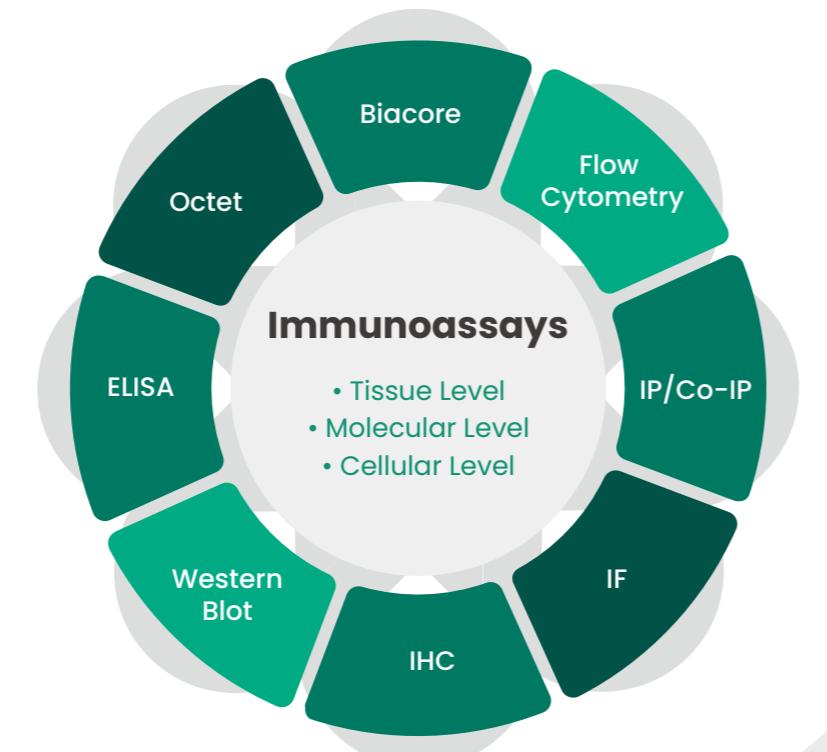
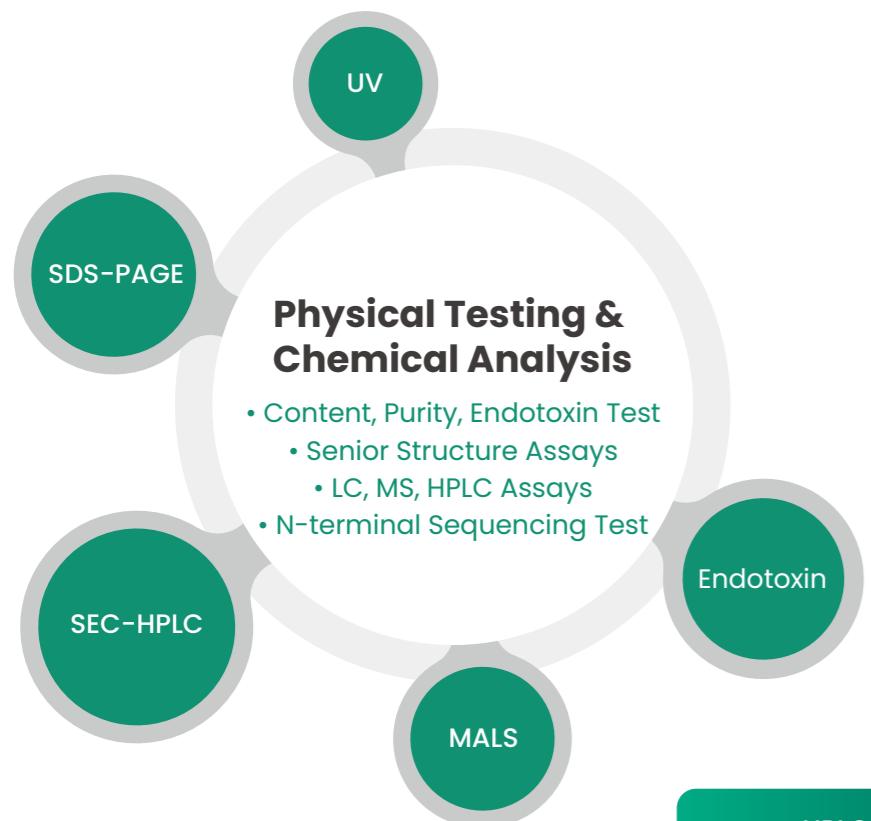
High-throughput & Scale-up Production Capacity

High-throughput Production Systems

Routine High-throughput Projects of Up to 1,000 Per Batch



Effective Quality Management System



Advanced Equipments



Quality System Certification



6,800+ Recombinant Proteins

- >85% Expressed in Eukaryotic Cells: Authentic Post-Translational Modifications
- Bulk Production: ~1g Available
- Comprehensive Collection: Various Species, Multiple Tags, Disease Variants



Viral Antigen Bank

- 1200+ Recombinant Viral Antigens
- Various Types: Influenza Virus, CoV, RSV, HIV, Ebola Virus ...
- Latest Strains & Vaccine Strains
- For Antibody Drugs and Vaccine Development



Fc Receptors

- Largest Supplier for Fc receptor Proteins
- Multiple Species, Validated Activity
- Human Variants for IgG Binding
- Popular Targets: CD64, CD32a, CD32b, CD16a, FCGRT&B2M



Cytokines & Receptors

Various Tags/Tag Free

Low Endotoxin

Multiple Species

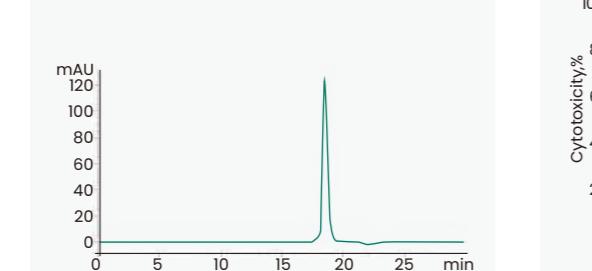


Protein Supplier to Watch in 2021-2022
Growth Factor Supplier to Watch in 2024

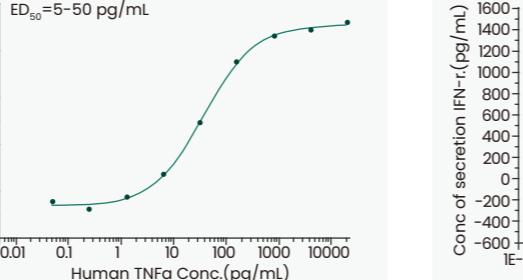
The supplier with the largest
percentage increase in protein
reagent citations during the
previous year.

CiteAb Awards: Established by CiteAb for the
scientific research industry and are based on
the reference data of product references.

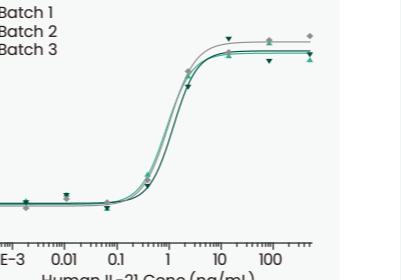
HPLC Validated High Purity



High Activity



Batch-to-batch Consistency

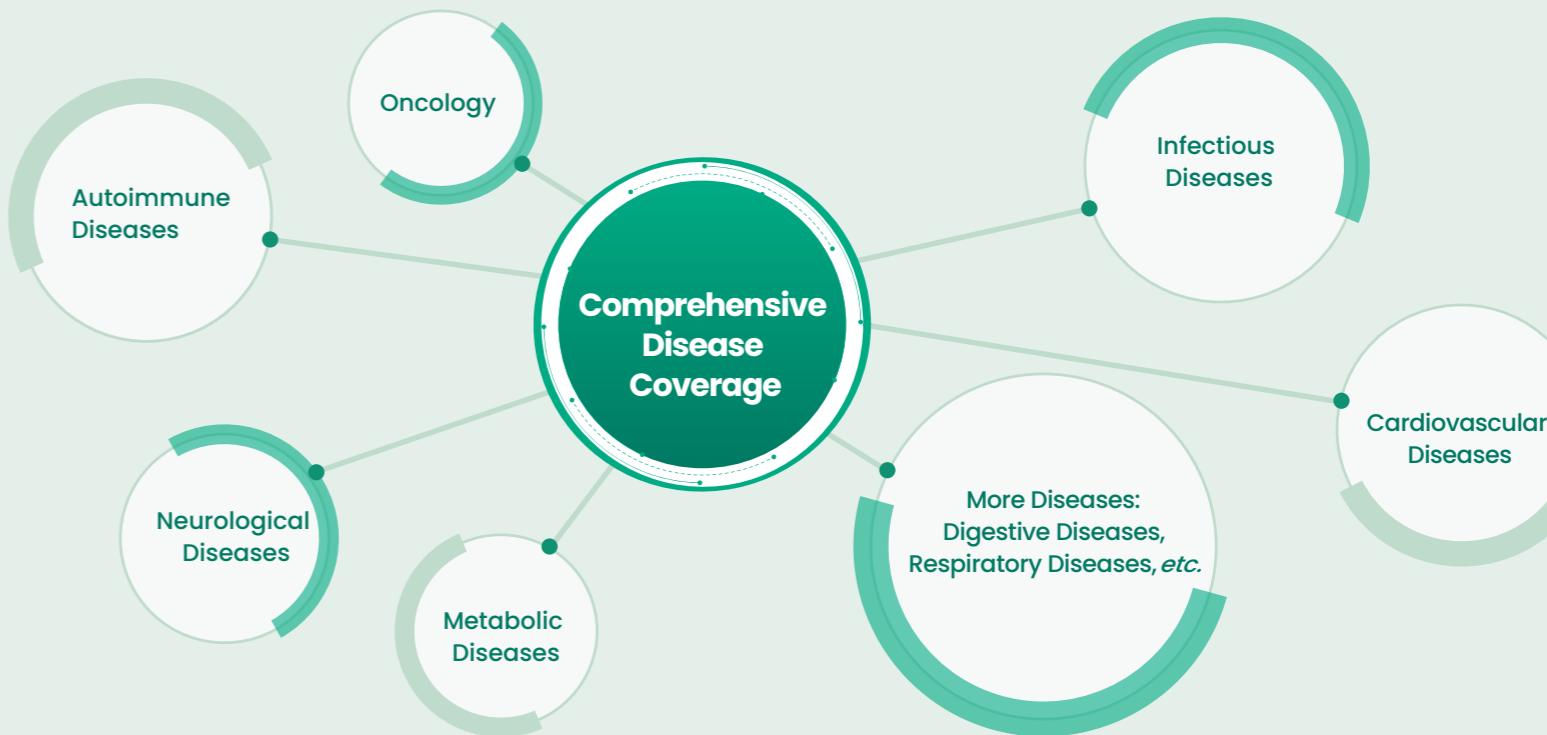


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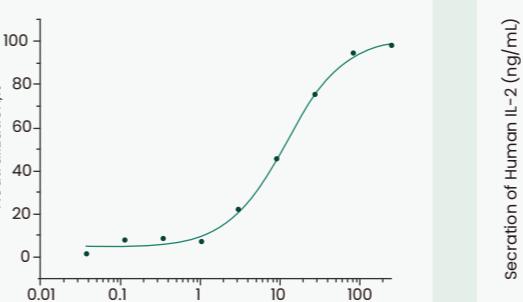


Drug Targets

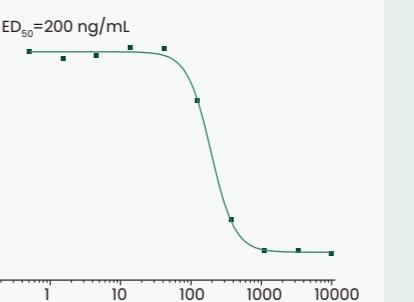
- 4000+ Recombinant Targets
- Supports Multiple Therapeutic Areas
- Multiple Research Animal Models Covered
- Popular Targets: PD-1, B7 Family, TNF Superfamily



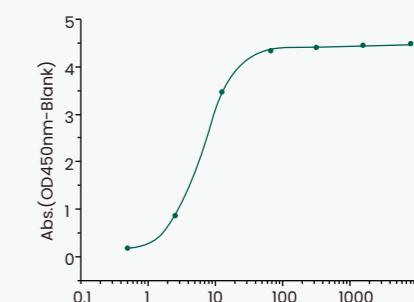
Human KDR Inhibits VEGF Activity



Human CTLA-4 Inhibits IL-2 Secretion



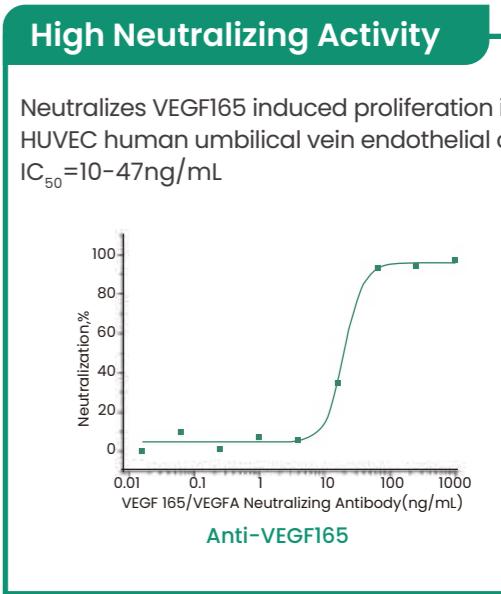
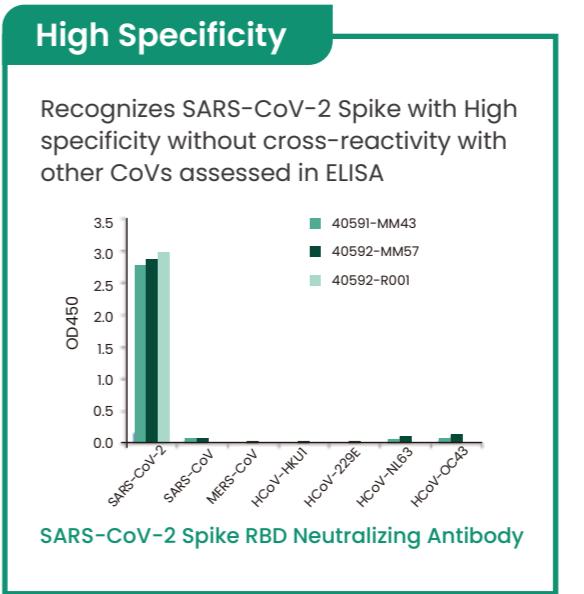
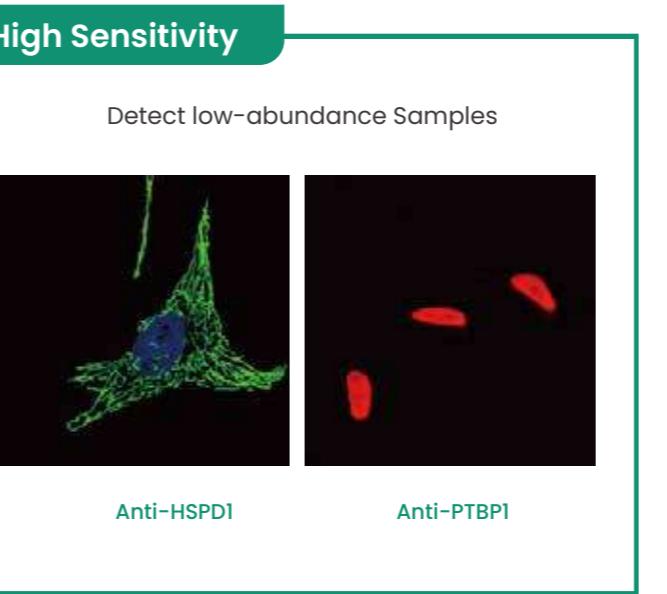
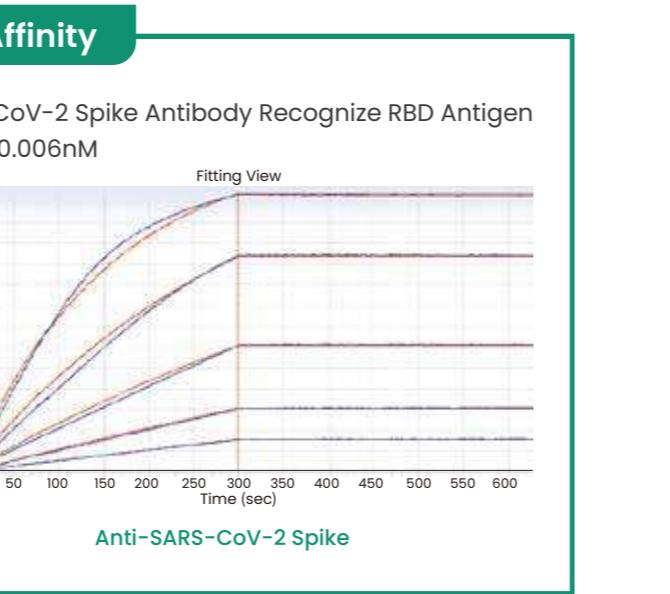
SARS-CoV-2 RBD N501Y Variant Binds with ACE2



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14,000+ Elite Antibodies

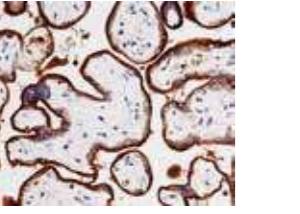
- Multiple Antibody Types: Rabbit mAb, Rabbit pAb, Mouse mAb, Labelled Antibodies
- Validated in Different Applications: ELISA, WB, FCM, IHC, IF, IP, Neutralization, *etc.*
- Conjugated Antibodies, Tag Antibodies, Secondary Antibodies, and Control Antibodies Available



Rabbit Monoclonal Antibodies

80% Using Eukaryotic Recombinant Proteins as Immunogen

Best Choice for IHC
Anti-Human TFRC



More Sensitive and Specific

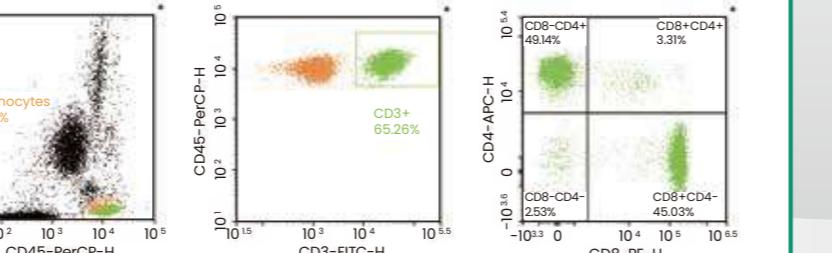
High Sensitivity
Anti-Human Nucleophosmin



FCM Antibodies for Diagnostics

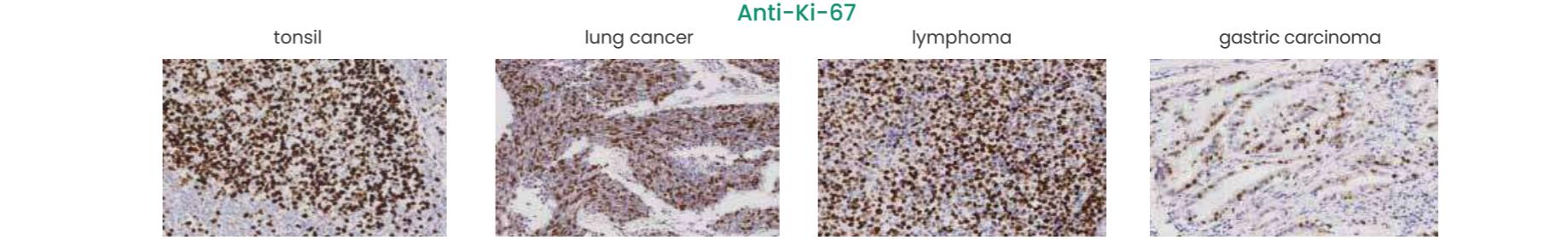
Fully Verified to Ensure High Specificity, Used as Raw Materials by Many Companies.

Targets: CD3, CD4, CD8, CD45, CD56, CD19, *etc.*



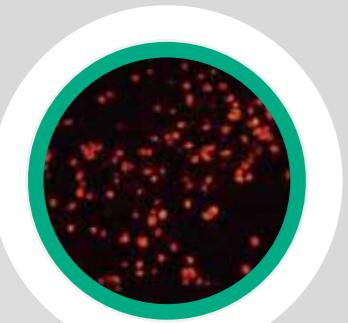
IHC Antibodies for Pathology Biomarkers

Validated in Various Tissues and Strict Quality Control System; Reliability and Repeatability Guaranteed. Targets: Ki-67, HER2, CD2, CEA, CD3, P53, CD68, CD20, PD1, *etc.*

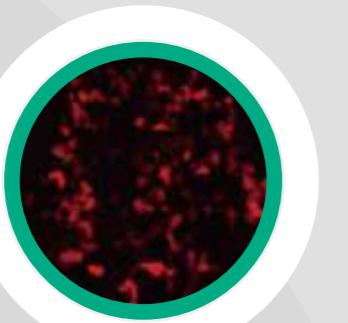


48,000+ cDNA Clones • -- All in Stock

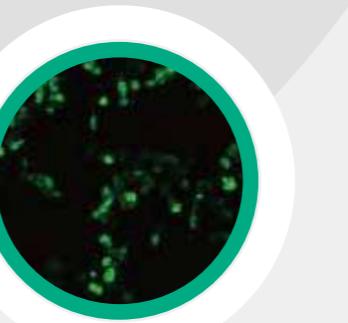
- Various Species: Human, Rat, Mouse, Rabbit, Cynomolgus, Canine, Ferret, Virus, *etc.*
- Multiple Tags: N/C-terminal Tags including Myc, HA, FLAG, His, GFPSpark®, and OFPSpark®
- Expression Validated (Partial)



Human MTOR cDNA,
C-OFPSpark®



Human PKM2 cDNA,
C-OFPSpark®



H7N9-NP cDNA,
C-OFPSpark®



Human PTPN1 cDNA,
C-OFPSpark®

600+ ELISAs •

- 400+ Ready-to-use ELISA Kits, 200+ ELISA Pair Sets
- Used for Human Cytokine Detection, Oncology Target Detection, Viral Antigen Detection, *etc.*

Raw Materials for Diagnostics •

- SARS-CoV-2 Antigen & Antibody Reagents
- Respiratory Disease Virus Reagents: Influenza Virus, RSV, HPIV, HAdv, *etc.*
- Biomarkers
- Allergens
- IHC Antibodies for Pathological Diagnosis
- FCM Antibodies for Diagnostics

Viral Reagent Bank

World's Largest Viral Antigen Bank

Widely Used in Therapeutic Antibody, Vaccine, and Immunodiagnostic Assay Development

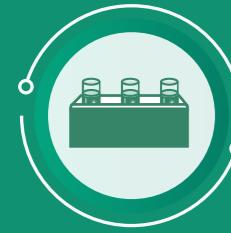
- 6000+ Viral Reagents: Recombinant Antigens, Antibodies, ELISA Kits, Pseudovirus, etc.
- Covering 50 Different Types, 500+ Strains of Viruses



Recombinant Antigens
• 1300+ Antigens from
• 500+ Strains



Antibodies
• 400+ Antibodies
• 20+ Neutralizing Antibodies



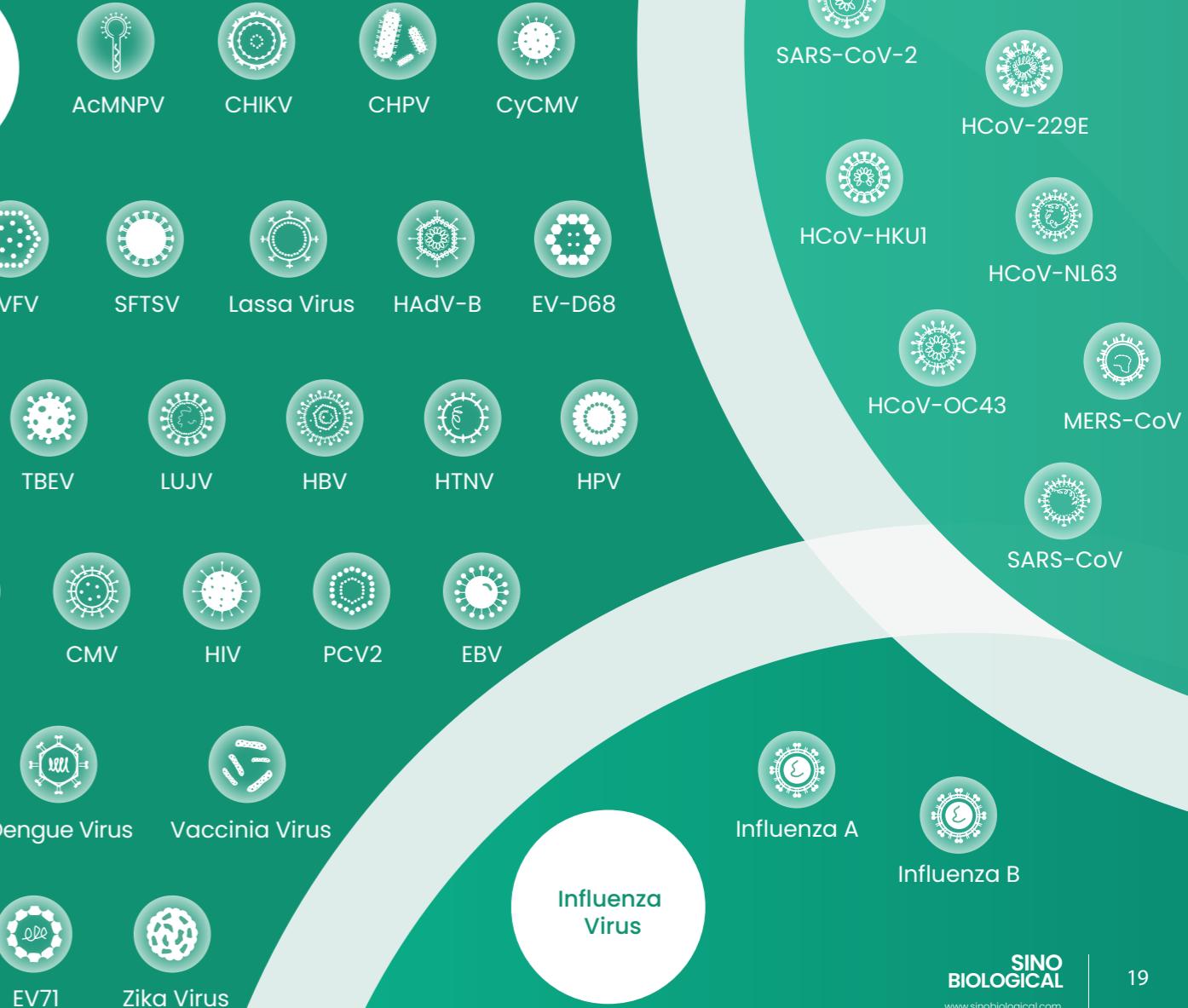
Assay Kits
• 30+ Virus Antigen Detection Kits
• 10+ Antibody Titer Assay Kits

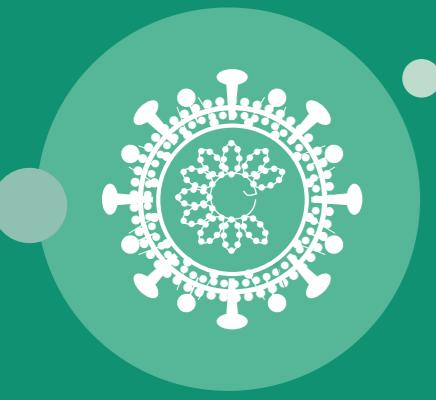


Reagents for Antiviral Immune Response Research
• 800+ Cytokine Products from
• 240+ Cytokine Molecules



More Viruses





SARS-CoV-2 Reagents

6 Days: Completed R&D of Omicron Spike RBD Protein

Supports SARS-CoV-2 Basic Research

1,000+ Research Papers Published on Journal, Including Nature, Science, Cell, etc.

Supports the Development of Immunodiagnostic Assay

Support 360+ Diagnostics R&D Companies to Develop Immunodiagnostic Kits

Supports the Development of Vaccine & Therapeutic Antibodies

7,000+ Projects: Recombinant SARS-CoV-2 Antibody Production

1,000+ Projects: Pseudovirus Neutralization Assay and Neutralizing Antibody ELISA Assay



370+ Recombinant SARS-CoV-2 Antigens

Recombinant SARS-CoV-2 Variants: 300+
Covering Most of VOCs & VOIs
Omicron:
XBB.1.16, XBB.1.5, XBB.1, XBB, BQ.1.1, BF.7, BA.4, BA.5, BA.5.2, CH.1.1, XBF

Small Molecule Drug Target Protein of SARS-CoV-2: 15+

PLpro 3CLpro RdRp Helicase Methyltransferase
NSP3 NSP7 NSP8 NSP9 NSP10

120+ SARS-CoV-2 Antigen Detection Antibodies

Antigen Detection Antibody Pairs Neutralizing Antibodies

Inhibitor Screening Kits, Antibody Titer Assay Kits, Pseudovirus, etc.



Influenza Virus Reagent Tools

- 3,000+ Influenza Virus Reagents
- 630+ Influenza Viral Antigens
- 200+ Influenza Viral Antigen Detection Antibodies

Covering 10 kinds of Antigens
HA (HA0, HA1, HA2), NA, NP, M1, M2, NS, NS2, PB1, PB2, PA

Covering 60 Subtypes, 330+ Strains

CRO Services

Sino Biological offers a variety of customized services, mainly focusing on recombinant production of antigens and antibodies. Sino Biological is the researchers' one-stop technical services shop for the advanced technology platforms they need to make scientific advancements. In addition, Sino Biological offers TOP10 pharmaceutical companies and biotechnology firms pre-clinical production technology services for hundreds of monoclonal antibody drug candidates.

Recombinant Protein Expression Services

- Mammalian Cell Expression System (HEK293/CHO)
- Insect Cell Expression System
- *E. coli* Cell Expression System

Antibody Production Services

- High-throughput Antibody Production
- Large-scale Antibody Production

Antibody Development Services

- Fast Mouse mAb Development
- Rabbit mAb Development
- Fast Rabbit pAb Development
- Anti-idiotype Antibody Development
- Bispecific Antibody Production
- Antibody Fragment Production
- Chimeric Antibody Production
- Phospho-Specific Antibody Production

Our Mission

"To advance life science and improve human health through the provision of superior quality research reagents and CRO services."

--Sino Biological, Inc.