

# ADCC Enhanced Cell Line Development

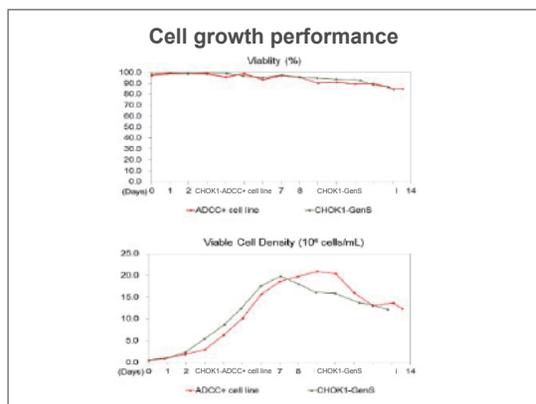
## Proprietary CHOK1-ADCC+ cell line system Enhance ADCC activity

Antibody-dependent cellular cytotoxicity (ADCC), is a mechanism of cell-mediated immune defense whereby an effector cell of the immune system actively lyses a target cell. It is important in the efficacy of cancer antibodies, but with many approved cancer antibodies there is less ADCC than could be desired due to nonspecific IgG competing with the drugs for binding to FcγIIIa(CD16a) on natural killer cells (NK cells). Afucosylated monoclonal antibodies overcome this problem through improved FcγIIIa binding.

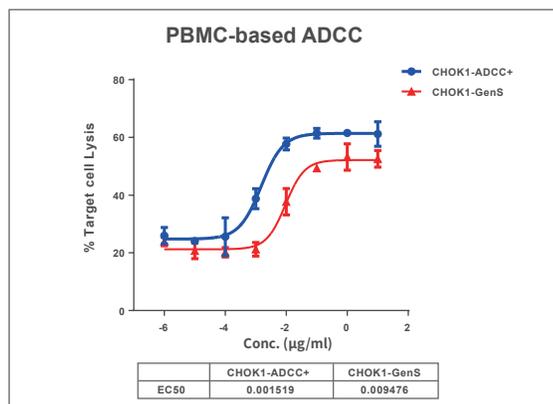
The scientists at ProBio developed ADCC enhanced host cell line (CHOK1-ADCC+), which can produce afucosylated monoclonal antibodies with enhanced ADCC activity.

### CHOK1-ADCC+ Case Study

The antibody produced by modified cell line **CHOK1-ADCC+** is successfully afucosylated. CHOK1-ADCC+ has a similar performance in antibody expression and growth compared to wild type CHOK1-GenS.



Compared with the antibody expressed by CHOK1-GenS, cytotoxicity is increased by about 10%, effect concentration (EC50) was reduced by 6 times, and ADCC effect was significantly enhanced.



### CHOK1-ADCC+ Service Package

Service Package	Transient Expression using CHOK1-ADCC+	Cell Pool Development using CHOK1-ADCC+	Cell Line Development using CHOK1-ADCC+ PCB & PCB stability
Timeline	20% OFF 8.5 weeks	40% OFF 14 weeks	18 weeks (excluding stability study)
Delivery	ROA	4 Mix pools	6 PCBs
Application scenario	Late discovery stage	Late discovery stage	Preclinical CMC development

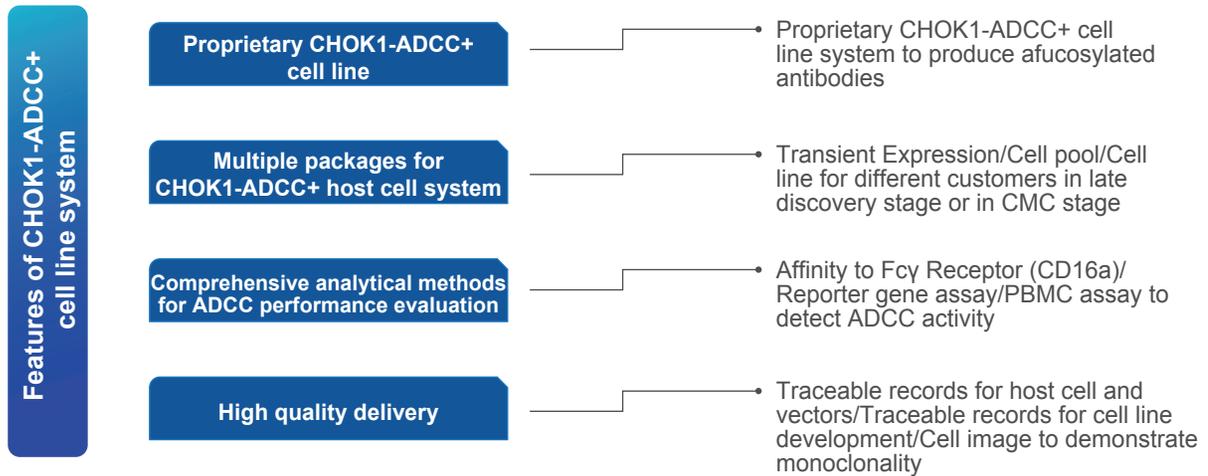
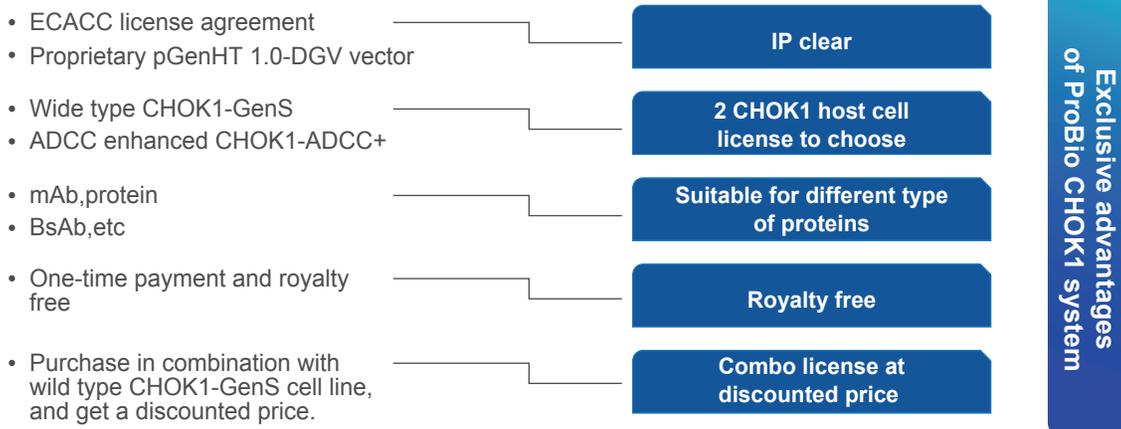
\*Discount cannot be combined with other discounts or promotions.

\*This promotion will be valid until december 30th, 2022

# Experienced Cell Line Development Platform

- GenScript ProBio has 12 years of experience in mammalian cell line development.
- GenScript ProBio is one of the earliest companies getting the CHOK1 license for commercial use and sublicense from ECACC.
- GenScript ProBio has been used in \*149+ projects for IND filing off which 18 has got IND approvals.
- The scientists at ProBio developed ADCC enhanced host cell line (CHOK1-ADCC+), which can produce afucosylated monoclonal antibodies with enhanced ADCC activity.

\*Data as of March 2022



## Company Information

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