

## 17 $\alpha$ -Hydroxyprogesterone

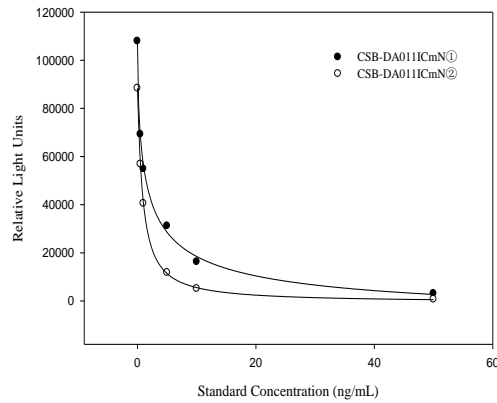
### Anti-Human 17 $\alpha$ -OHP Monoclonal Antibody

A new generation of anti-17 $\alpha$ -OHP monoclonal antibodies, which was recently produced by CUSAg, makes possible the development of highly sensitive immunoassays. The sensitivity and specificity of anti-17 $\alpha$ -OHP monoclonal antibodies have been repeatedly tested by competitive chemiluminescence immunoassay (CLIA).

Properties	Specification
Target species	Human
Host animal	Mice Balb/c
Cell line used for fusion	Sp2/0
Immunogen	17 $\alpha$ -OHP conjugate
Purification method, Purity	Protein G affinity chromatography
Presentation	MAB solution in PBS with 15 mM NaN <sub>3</sub> (pH 7.4)
Application	CLIA, ELISA etc.
Catalog Number	CSB-DA011ICmN①; CSB-DA011ICmN②

## Competition Curve

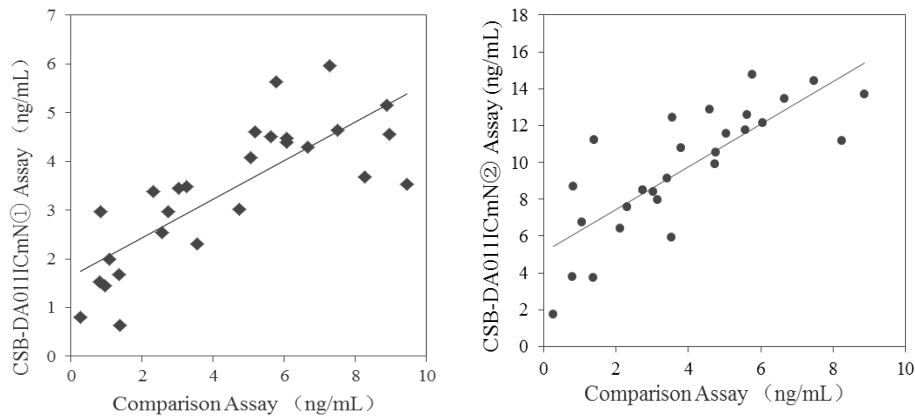
17 $\alpha$ -OHP conjugate was coated onto microplate, then added the monoclonal antibody and 17 $\alpha$ -OHP standards, finally joined the second antibody labeled by horseradish peroxidase (HRP). Quantity of HRP combination was inversely proportional to the amount of standard. Our in-house assays have a detection range 0-50 ng/mL .



**Fig.1 Competition curve for 17 $\alpha$ -OHP in competitive chemiluminescence immunoassay (CLIA)**

## Clinical Comparison

27 clinical blood samples were separately tested using CUSAg 17 $\alpha$ -OHP antibodies on the CLIA platform. Data from this study were compared to that of commercial diagnostic kit.



**Fig.2 Clinical comparison of CUSAg 17 $\alpha$ -OHP immunoassays and commercial diagnostic kit**