

# Anti-StayGold/mBaojin, AlpHcAbs® Rabbit antibody

Code: 082-201-001

Cat.No: 082-201-001

Immunogen: StayGold fusion protein

Clone No: A2F7

Host: Alpaca pacous

Isotype: VHH domain of alpaca IgG2b/2c fused to Rabbit Fc(mutation)

Conjugate: Unconjugated

Specificity: StayGold

Cross-Reactivity: Recognizes StayGold, mStayGold and mBaojin variants. Does not cross-react with other proteins.

Purity: Recombinant Expression and Affinity purified

Size: 100ug

Buffer: 10mM PBS(pH 7.5), 0.05% sucrose, 0.1% trehalose, 0.01% proclin300

Formation: Freeze-dried Powder, Store at 2-8°C

Rehydration: Rehydrated by 100uL dH<sub>2</sub>O or 100uL dH<sub>2</sub>O with 50% Glycerol before using (Final concentration: 1mg/mL)

Storage after Rehydration: -20°C (Avoid freeze/thaw cycles)

## Description

Anti-StayGold/mBaojin, AlpHcAbs® Rabbit antibody is designed for detecting StayGold fusion protein specifically. Anti-StayGold/mBaojin, AlpHcAbs® Rabbit antibody is monovalent, recombinant single domain antibody fused to rabbit IgG Fc. Based on western blot and ELISA, Anti-StayGold/mBaojin, AlpHcAbs® Rabbit antibody reacts with the StayGold selectively, no reactivity with other proteins.

## Background

StayGold is an exceptionally bright and stable fluorescent protein that is highly resistant to photobleaching. The high brightness and photostability of the green fluorescent protein StayGold make it a particularly attractive probe for long-term live-cell imaging. Using antibody with Fc(mutation), the background from Fc receptors will be eliminated.

## Benefits

High lot-to-lot consistency

Increased sensitivity and higher affinity

Animal-free production

## Application notes

WB 1:5,000-1:20000

ELISA 1:5,000-1:20000

ICC/IF 100-1:1000

IP 1-2ug/sample

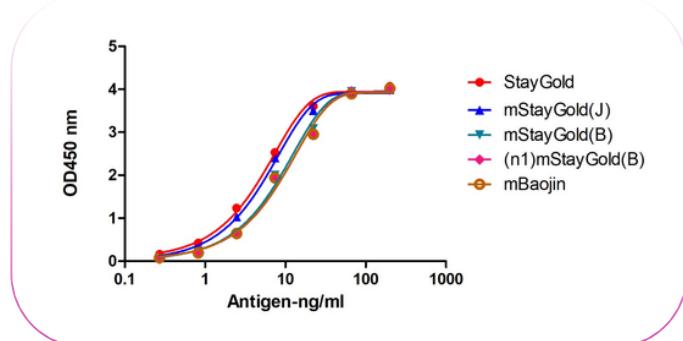
Flow Cyt 1μg for 10<sup>6</sup> cells

Dilution factors are presented in the form of a range because the optimal dilution is a function of many factors, such as antigen density, permeability, etc. The actual dilution used must be determined empirically.

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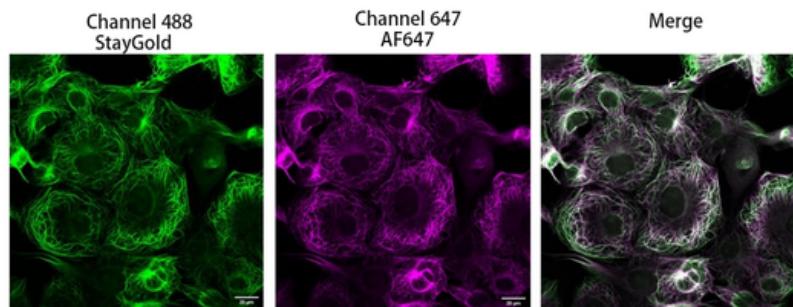
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## Validation Data



- Elisa experiment of different antigen using Anti-StayGold/mBaojin, AlpHcAbs® Rabbit antibody

The plate was coated with different amounts of StayGold or its variants. 1:10000 dilution of Anti-StayGold/mBaojin, AlpHcAbs® Rabbit antibody was used as the primary antibody. Anti-Rabbit IgG(H+L), AlpSdAbs® VHH(HRP) (025-102-005) was used as the secondary antibody.



- Confocal experiment of StayGold-Ensconsin transfected COS-7 using Anti-StayGold/mBaojin, AlpHcAbs® Rabbit antibody

StayGold-Ensconsin transfected COS-7 cells were stained with Anti-StayGold/mBaojin, AlpHcAbs® Rabbit antibody (1:500) and Goat Anti-Rabbit IgG Antibody(AF647) was the secondary antibody(1:1000). (This picture is kindly provided by Zhang Lab, School of Life Sciences, Westlake University)

Please note: All products are FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC PROCEDURES.