Anti-Strep-Tag II Antibody [PSH05-13] - BSA and Azide free

HA750986

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Species independent
Applications:	WB, IF-Cell, IP
Clone number:	PSH05-13

Description: The Strep-tag® system is a method which allows the purification and detection of proteins by affinity chromatography. The Strep-tag II is a synthetic peptide consisting of eight amino acids (Trp-Ser-His-Pro-Gln-Phe-Glu-Lys). This peptide sequence exhibits intrinsic affinity towards Strep-Tactin®, a specifically engineered streptavidin, and can be N- or C-terminally fused to recombinant proteins. By exploiting the highly specific interaction, Strep-tagged proteins can be isolated in one step from crude cell lysates. Because the Strep-tag elutes under gentle, physiological conditions it is especially suited for generation of functional proteins.

Immunogen: Synthetic peptide corresponding to Strep-tag II.

Recommended Dilutions:

WB	1:10,000
IF-Cell	1:2,500
IP	1-2μg/sample

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

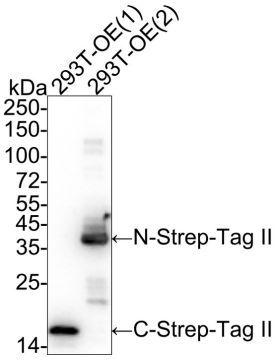

Fig1: Western blot analysis of Strep-Tag II on different lysates with Rabbit anti-Strep-Tag II antibody (HA750986) at 1/10,000 dilution.

Lane 1: 293T transfected with Strep-Tag II-tagged Histone H3.1 (C-terminal) cell lysate
Lane 2: 293T transfected with Strep-Tag II-tagged ACAT2 (N-terminal) cell lysate

Lysates/proteins at 10 µg/Lane.

Exposure time: 2 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA750986) at 1/10,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

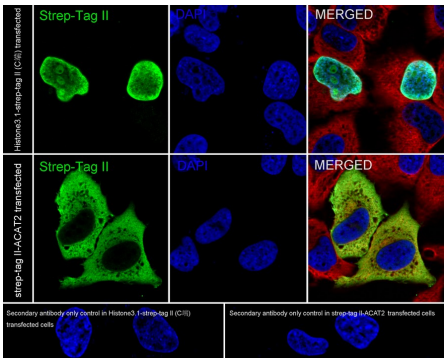

Fig2: Immunocytochemistry analysis of HeLa cells labeling Strep-Tag II with Rabbit anti-Strep-Tag II antibody (HA750986) at 1/2,500 dilution.

HeLa cells, transfected with Strep-Tag II-tagged Histone H3.1 (C-terminal) or ACAT2 (N-terminal) expression vector, respectively, were fixed in 4% paraformaldehyde for 10 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Strep-Tag II antibody (HA750986) at 1/2,500 dilution in 1% BSA in PBST overnight at 4 ℃. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4℃. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

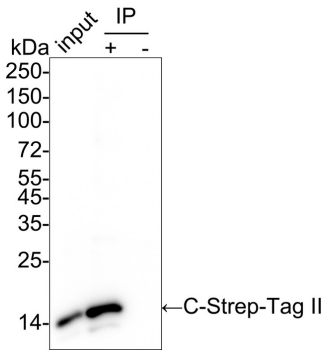

Fig3: Strep-Tag II was immunoprecipitated from 0.2 mg 293T transfected with Strep-Tag II-tagged Histone H3.1 (C-terminal) cell lysate with HA750986 at 2 µg/10 µl beads. Western blot was performed from the immunoprecipitate using HA750986 at 1/5,000 dilution. Anti-Rabbit IgG for IP Nano-secondary antibody (NBI01H) at 1/5,000 dilution was used for 1 hour at room temperature.

Lane 1: 293T transfected with Strep-Tag II-tagged Histone H3.1 (C-terminal) cell lysate (input)
Lane 2: HA750986 IP in 293T transfected with Strep-Tag II-tagged Histone H3.1 (C-terminal) cell lysate
Lane 3: Rabbit IgG instead of HA750986 in 293T transfected with Strep-Tag II-tagged Histone H3.1 (C-terminal) cell lysate

Blocking/Dilution buffer: 5% NFDM/TBST
Exposure time: 2 seconds; ECL: K1801

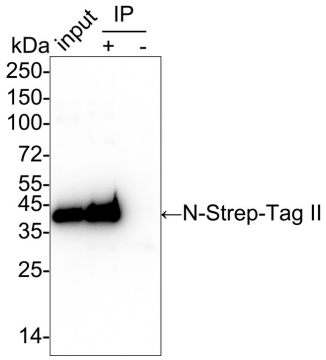

Fig4: Strep-Tag II was immunoprecipitated from 0.2 mg 293T transfected with Strep-Tag II-tagged ACAT2 (N-terminal) cell lysate with HA750986 at 2 µg/10 µl beads. Western blot was performed from the immunoprecipitate using HA750986 at 1/5,000 dilution. Anti-Rabbit IgG for IP Nano-secondary antibody (NBI01H) at 1/5,000 dilution was used for 1 hour at room temperature.

Lane 1: 293T transfected with Strep-Tag II-tagged ACAT2 (N-terminal) cell lysate (input)
Lane 2: HA750986 IP in 293T transfected with Strep-Tag II-tagged ACAT2 (N-terminal) cell lysate
Lane 3: Rabbit IgG instead of HA750986 in 293T transfected with Strep-Tag II-tagged ACAT2 (N-terminal) cell lysate

Blocking/Dilution buffer: 5% NFDM/TBST
Exposure time: 2 seconds; ECL: K1801

Background References

1. Arne Skerra. et. al. The Strep-tag system for one-step purification and high-affinity detection or capturing of proteins. Nat Protoc. 2007;2(6):1528-35.