

Anti-mNeonGreen Antibody [PSH19-59]

HA724085



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Species independent
Applications:	IF-Tissue, WB, IP
Molecular Wt:	Predicted band size: 29 kDa
Clone number:	PSH19-59

Description: The fluorescent proteins from lancelets have been adapted for use in molecular biology and microscopy. The yellow fluorescent protein from *Branchiostoma lanceolatum* exhibits unusually high quantum yield (~0.95). It has been engineered into a monomeric green fluorescent protein known as mNeonGreen, which is the brightest known monomeric green or yellow fluorescent protein.

Immunogen: Recombinant protein within Common lancelet mNeonGreen aa 1-260.

Database links: SwissProt: A0A1S4NYF2 Common lancelet

Recommended Dilutions:

IF-Tissue	1:2,000
WB	1:5,000
IP	1-2µg/sample

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

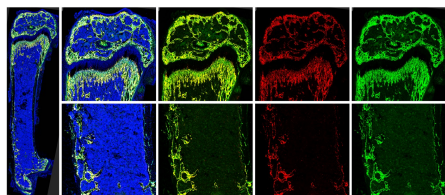
Technical: 0086-571-89986345

Service mail: support@huabio.cn

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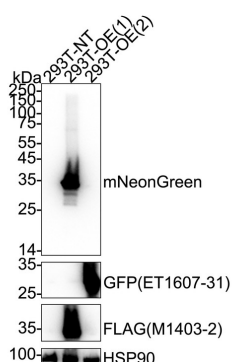
Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

**Fig1:** Sample: Mouse cartilage

Green: Gene X-mNeonGreen;
Red: anti-mNeonGreen (HA724085);
Blue: Hoechst

The far left is the merged fluorescence image.

**Fig2:** Western blot analysis of mNeonGreen on different lysates with Rabbit anti-mNeonGreen antibody (HA724085) at 1/5,000 dilution.

Lane 1: 293T transfected with empty control cell lysate

Lane 2: 293T transfected with FLAG-tagged mNeonGreen cell lysate

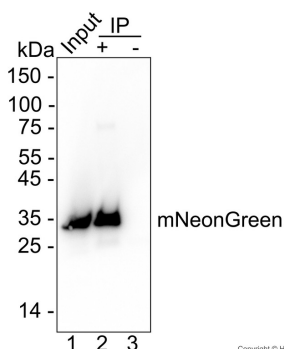
Lane 3: 293T transfected with GFP cell lysate

Lysates/proteins at 15 µg/Lane.

Exposure time: 3 seconds; ECL: K1801;

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 (HA724085) at 1/5,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

**Fig3:** mNeonGreen was immunoprecipitated from 0.2 mg 293T transfected with FLAG-tagged mNeonGreen cell lysate with HA724085 at 2 µg/10 µl beads. Western blot was performed from the immunoprecipitate using HA724085 at 1/5,000 dilution. HRP Conjugated Anti-Rabbit IgG for IP Nano-secondary antibody at 1/5,000 dilution was used for 1 hour at room temperature.

Lane 1: 293T transfected with FLAG-tagged mNeonGreen cell lysate (input)

Lane 2: HA724085 IP in 293T transfected with FLAG-tagged mNeonGreen cell lysate

Lane 3: Rabbit IgG instead of HA724085 in 293T transfected with FLAG-tagged mNeonGreen cell lysate

Blocking/Dilution buffer: primary antibody dilution (K1803)

Exposure time: 2 seconds; ECL: K1801

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Joshi M et al. mNeonGreen aggregates when overexpressed in *C. elegans* neurons. MicroPubl Biol. 2024 Feb
2. Hoshizaki J et al. Efficient generation of mNeonGreen *Plasmodium falciparum* reporter lines enables quantitative fitness analysis. Front Cell Infect Microbiol. 2022 Sep

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