

A24858

Leader in Biomolecular Solutions for Life Science



mNeonGreen Rabbit pAb

Catalog No.: A24858 **1 Publications**

Basic Information

Observed MW

30kDa

Calculated MW

30kDa

Category

Polyclonal Antibody

Applications

WB,IF/ICC,ELISA

Cross-Reactivity

Species independent

Background

Mutations were performed on LanYFP, and mNeonGreen (GenBank login number KC295282) was identified. In addition to the additional EGFP type terminal 9, a total of 21 mutations were found relative to the tetramer LanYFP (F15I, R25Q, A45D, Q56H, F67Y, K79V, S100V, F115A, I118K, V140R, T141S, M143K, L144T, D156K, T158S, S163N, Q168R, V171A, N174T, I185Y, F192Y). It is a yellow green fluorescent protein derived from amphioxus. As a fusion protein, mNeonGreen is a very useful tool for reporting gene expression, tracking cell lines, and determining subcellular protein localization. On the protein sequence level, only 20-25% of the mNeonGreen sequences are consistent with ordinary GFP derivative sequences; mNeonGreen has a maximum excitation value at 506 nm and a maximum emission value at 517 nm (Shaner et al., 2013). mNeonGreen is compatible with most GFP filter sets. Obviously, when using a GFP filter, it is three times brighter than GFP; The optimization of filters can further increase their brightness. In addition, mNeonGreen appears to be more stable than EGFP and less sensitive to laser induced bleaching. Therefore, mNeonGreen is particularly suitable for confocal microscopy and super-resolution microscopy, especially when studying low-level expression of fusion proteins.

Recommended Dilutions

WB 1:1000 - 1:5000

IF/ICC 1:50 - 1:200

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

Swiss Prot

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

Contact

 www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

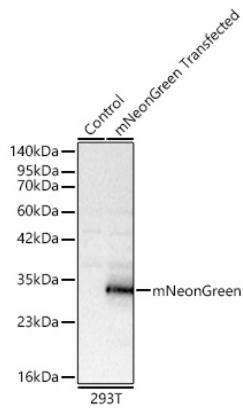
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



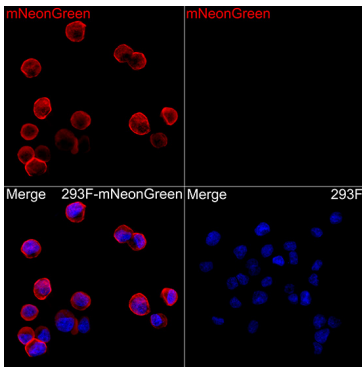
Western blot analysis of lysates from wild type (WT) and 293T cells transfected with mNeonGreen using mNeonGreen Rabbit pAb (A24858) at 1:2000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 μ g per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 0.5s.



Immunofluorescence analysis of 293F-6Xhis-mNeonGreen-S-tag(C) and 293F cells using mNeonGreen Rabbit pAb(A24858) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L)(AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.