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mNeonGreen-Tag Rabbit mAb

Catalog No.: A27167 Recombinant

Basic Information

Observed MW
35kDa

Calculated MW
30kDa

Category
Primary antibody

Applications
WB,IF/ICC,ELISA

Cross-Reactivity
Species independent

CloneNo number
ARC68755

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	1:10000 - 1:60000
IF/ICC	1:500 - 1:2000
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

400-999-6126

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Product Information

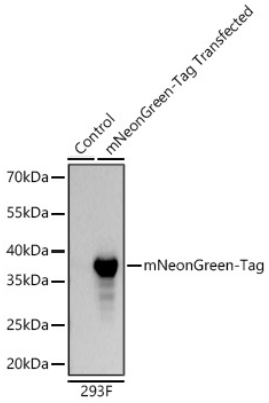
Source
Rabbit

Isotype
IgG

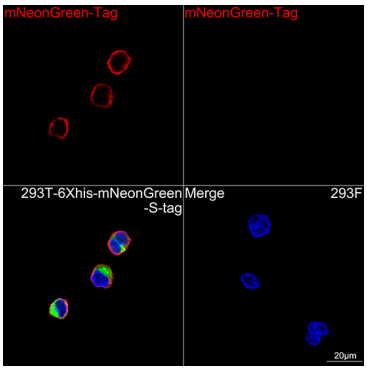
Purification
Affinity purification

Storage
Store at -20℃

Validation Data



Western blot analysis of lysates from wild type (WT) and 293F cells transfected with mNeonGreen-Tag using mNeonGreen-Tag Rabbit mAb (A27167) at 1:10000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 20 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020)
.Exposure time: 10s.



Confocal imaging of 293F cells transfected with 6Xhis-mNeonGreen-S-tag and 293F cells using mNeonGreen-Tag Rabbit mAb (A27167, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.