

CAB24858

Product Information

Product SKU:	CAB24858	Gene ID:	-	Size:	20uL, 100uL
Clone No:	-	Host Species:	Rabbit	Reactivity:	Branchiostoma lanceolatum

Additional Information

Observed MW:	30kDa	Conjugate:	Unconjugated
Calculated MW:	30kDa	Isotype:	IgG

Immunogen Information

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 Dilution: WB, 1:1000 - 1:5000 IF/ICC, 1:50 - 1:200

Synonyms: -

Purification Method: Affinity purification

Immunogen: Recombinant fusion protein containing a sequence corresponding to amino acids 10-236 of Branchiostoma lanceolatum mNeonGreen.

Storage: Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.