

Anti-GFP [Minimizer] Standard Size Ab03618-23.159

Isotype and Format: Rabbit IgG-Fc fusion

Clone Number: Minimizer

Alternative Name(s) of Target: Green fluorescent protein; MI; GBP4

UniProt Accession Number of Target Protein: P42212

Published Application(s): crystallization, in vitro

Published Species Reactivity: Aequorea victoria (Water jellyfish, Mesonema victoria)

Immunogen: The original antibody was generated by immunizing camels with GFP. A phage display library was constructed and the antibody was selected by panning against GFP.

Specificity: The antibody is specific for green fluorescent protein. The antibody interacts with β -strands 6 and 7 of GFP.

Application Notes: The antibody could reversibly reduce GFP fluorescence by a factor of 5 in vitro. A comparable fluorescence modulation was also observed after addition of the antibody to soluble cell extract derived from human embryonic kidney (HEK) 293T cells expressing eGFP. The crystal structure of the GFP-antibody complex was determined. The dissociation constant of the antibody was measured ($K_d = 0.45$ nM) (Kirchhofer et al., 2010; PMID: 20010839). Fluorescence modulation in living cells was also observed after the addition of the antibody to HeLa cells expressing GFP (Schmidthals et al., 2010; PMID: 20372881).

Antibody First Published in: Kirchhofer et al. Modulation of protein properties in living cells using nanobodies. (2010) Nat Struct Mol Biol 17: 133-138 [PMID:20010839](#)

Note on publication: The original paper describes the generation and characterization of the antibody

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.