

Recombinant Protein G-Firefly Luciferase Fusion Protein, His-tagged

Cat. No. Luciferase-11F **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Protein G-Firefly Luciferase Fusion Protein, fused with His tag, was expressed in E. coli.
Species	Firefly
Source	E. coli
Description	Antibody Binding Firefly Luciferase is a Protein G-Firefly Luciferase (protein G-Fluc) fusion protein. It consists of protein G and firefly luciferase (Fluc), while the two proteins connect via a short peptide. Protein G tightly binds to IgG molecules from rabbit, human, mouse, goat, sheep, cow, and rat. In addition, protein G conjugates are especially valuable for detecting antibodies that bind poorly to protein A, such as human IgG3, mouse IgG1, and immunoglobulins from rat, sheep, and horse. Firefly luciferase (Fluc) is a light-emitting enzyme to estimate gene expression. It catalyzes the oxidation of firefly luciferin, allowing its detection by a luminometer. As an antibody binding luciferase, protein G-Fluc can avoid harmful labeling of the detecting antibody. Because staining protocols vary with application, the appropriate dilution of Antibody Binding Firefly Luciferase should be determined empirically.
Form	50 mM sodium phosphate, 100 mM NaCl, 1 mM DTT, pH7.2, 50% glycerol
Molecular Mass	85.3 kDa
Purity	≥ 90% by SDS-PAGE

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Storage	Store at -20°C.
Concentration	0.5 ~ 1.0 mg/ml
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
SDS-PAGE	