

Recombinant Firefly Luciferase, His tagged, Protein G Labeled

Cat. No. Luciferase-04F **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Protein G labeled recombinant firefly luciferase with His tag was expressed in E. coli.
Species	Firefly
Source	E.coli
Conjugation/Label	Protein G
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	Liquid
Molecular Mass	85.3 kDa
Purity	≥ 90% by SDS-PAGE

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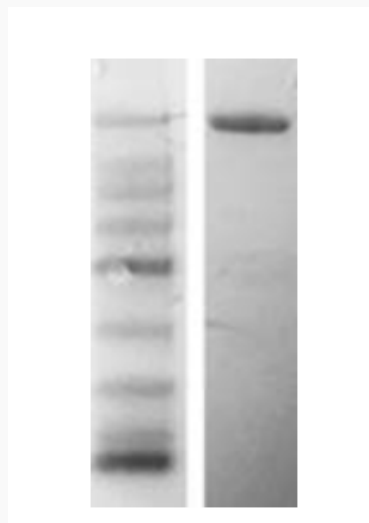
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Applications	In vitro research use only
Storage	Short Term Storage: -20 centigrade Long Term Storage: -20 centigrade Avoid freeze/thaw cycle. Aliquot upon arrival.
Storage Buffer	50 mM sodium phosphate, 100 mM NaCl, 1 mM DTT, pH7.2, 50% glycerol
Concentration	0.5-1.0 mg/mL
Shipping	Cold packs

GENE INFORMATION

Synonyms	Luciferase; Luciferin 4-monooxygenase; EC:1.13.12.7
UniProt ID	Q27757

WB



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