

Product datasheet for **AP09104FC-S**

Luciferase (*Photinus pyralis*) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, IF
Recommended Dilution:	Immunofluorescence: 1/500 - 1/2500.
Host:	Goat
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Luciferase (<i>Photinus pyralis</i> (Firefly))
Specificity:	This antibody reacts to Luciferase.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 containing 10 mg/ml Bovine Serum Albumin (BSA) as stabilizer and 0.01% (w/v) Sodium Azide as preservative Label: FITC State: Lyophilized IgG fraction Label: Fluorescein isothiocyanate Absorption emission: 495 nm / 528 nm Molar radio: 2.5 moles FITC per mole of Goat IgG
Reconstitution Method:	Restore with 2.0 ml of deionized water (or equivalent). For extended storage, mix product with glycerol to 50% final
Concentration:	lot specific
Purification:	Ion exchange chromatography
Conjugation:	FITC
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	390 kDa.
Database Link:	P08659



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Background:

Luciferase from the firefly has become one of the more widely used reporter proteins for the study of gene expression. Luciferase catalyzes a bioluminescent reaction which requires the substrate luciferin as well as Mg^{2+} and ATP. Mixing these reagents with the cell extract containing luciferase, results in a flash of light that decays rapidly. This light can be detected by a luminometer. The total light emission is proportional to the luciferase activity of the sample.