

## Product datasheet for **AP09104PU-S**

### Luciferase (*Photinus pyralis*) Goat Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/200-1/1000. <b>Immunofluorescence:</b> 20 µg/ml. <b>Western Blot:</b> 1/1000-1/5000. <b>Immunohistochemistry:</b> 1/1,000-1/5,000. Suitable for immunoblotting (western or dot blot), ELISA, immunoprecipitation, immunocytochemistry, and most immunological methods requiring high titer and specificity.
Host:	Goat
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Luciferase <i>Photinus pyralis</i> (Firefly)
Specificity:	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum as well as purified and partially purified Luciferase [ <i>Photinus pyralis</i> (Firefly)]. No reactivity is observed against Sea pansy ( <i>Renilla reniformis</i> ) luciferase.
Formulation:	0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2 State: Purified State: Liquid (sterile filtered) purified IgG fraction Stabilizer: None Preservative: 0.01% (w/v) Sodium Azide
Concentration:	lot specific
Purification:	Ion Exchange Chromatography
Conjugation:	Unconjugated
Storage:	Store 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.
Database Link:	<a href="#">P08659</a>



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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.