

## Product datasheet for **AP31791PU-S**

### GFP Chicken Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western Blot</b> (1/2500-1/5000). <b>Immuofluorescence.</b> <b>Immunohistochemistry</b> (1/500-1/1000).
Host:	Chicken
Isotype:	IgY
Clonality:	Polyclonal
Immunogen:	Purified recombinant Green Fluorescent Protein (GFP) emulsified in Freund's adjuvant. After multiple injections, eggs were collected from the hens, and IgY fractions were prepared from the yolks. Purified antibody preparations were then mixed with Glycerol 1:1 (v/v) (to prevent freezing at -20°C), augmented with Thimerosal, and then filter-sterilized.
Specificity:	Recognizes Green Fluorescent Protein (GFP). <b>Quality Control:</b> Antibodies were analyzed by Western blot analysis (1/5000) and Immunohistochemistry (1/500) using transgenic mice expressing the GFP gene product. Western blots were performed using BlokHen® as the blocking reagent, and HRP-labeled Goat anti-Chicken antibody (Cat.-No AP31795HR-N) as the detection reagent. Immunohistochemistry used Tetramethyl Rhodamine-Labeled anti-Chicken IgY.
Formulation:	Sodium Phosphate-Buffered (10 mM, pH7.2) isotonic Saline (0.9%, w/v) with 50% (v/v) Glycerol, 0.02% sodium azide State: Aff - Purified State: Liquid purified IgY fraction
Concentration:	lot specific
Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C in the dark. Avoid repeated freezing and thawing. Centrifuge vial before opening.



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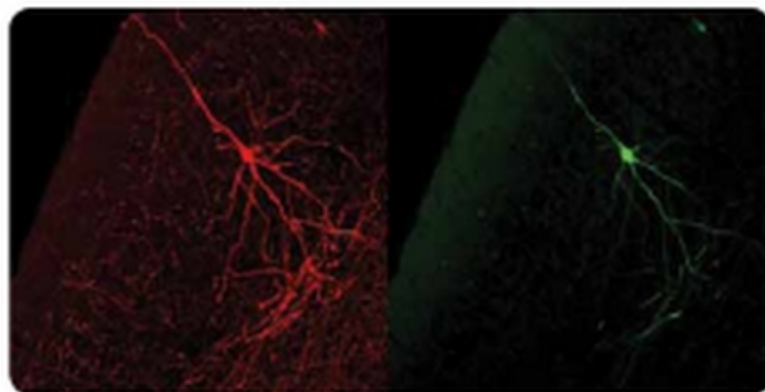
**Stability:** Shelf life: one year from despatch.

**Database Link:** [P42212](#)

**Background:** Green fluorescence protein (GFP) is a 27 kDa protein derived from the jellyfish *Aequorea victoria*, which emits green light (emission peak at a wavelength of 509 nm) when excited by blue light (excitation peak at a wavelength of 395 nm). Green Fluorescent Protein (GFP) has become an invaluable tool in cell biology research, since its intrinsic fluorescence can be visualized in living cells. GFP fluorescence is stable under fixation conditions and suitable for a variety of applications. GFP has been widely used as a reporter for gene expression, enabling researchers to visualize and localize GFP-tagged proteins within living cells without the need for chemical staining. Other applications of GFP include assessment of protein-protein interactions through the yeast two hybrid system and measurement of distance between proteins through fluorescence energy transfer (FRET) protocols. GFP technology has considerably contributed to a greater understanding of cellular physiology.

**Synonyms:** Green fluorescent protein, GFP-Tag

### Product images:



The same murine cortical neuron visualized using our Chicken anti-GFP antibody (left, in red) and visualized using GFP autofluorescence (right, in green). Note the increased detail and intensity of the anti-GFP antibody staining.