

**Anti-GFP (GOAT) Antibody**  
**GFP Antibody**  
**Catalog # ASR5079****Specification**

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**Anti-GFP (GOAT) Antibody - Product Information**

Host	Goat
Conjugate	Unconjugated
Reactivity	GFP
Clonality	Polyclonal
Application	WB, IHC, E, IP, I, LCI
Application Note	Anti-GFP is designed to detect GFP and its variants. Goat Anti-GFP has been tested by ELISA, Western blot, and immunofluorescence. This product is also suitable for EM, FC, FISH, IHC, IP, purification, and multiplex assays based on published references. This antibody can be used to detect GFP by ELISA (sandwich or capture) for the direct binding of antigen and recognizes wild-type, recombinant, and enhanced forms of GFP. Researchers should determine optimal titers for applications.
Physical State	Liquid (sterile filtered)
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	The immunogen is a Green Fluorescent Protein (GFP) fusion protein corresponding to the full length amino acid sequence (246aa) derived from the jellyfish <i>Aequorea victoria</i> .
Preservative	0.01% (w/v) Sodium Azide

**Anti-GFP (GOAT) Antibody - Additional Information****Purity**

GFP antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Green Fluorescent Protein (*Aequorea victoria*) coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum and purified and partially purified Green Fluorescent Protein (*Aequorea victoria*). No reaction was observed against Human, Mouse or Rat serum proteins.

**Storage Condition**

Store GFP antibody at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

**Precautions Note**

This product is for research use only and is not intended for therapeutic or diagnostic applications.

**Anti-GFP (GOAT) Antibody - Protein Information**

**Name** GFP

**Function**

Energy-transfer acceptor. Its role is to transduce the blue chemiluminescence of the protein aequorin into green fluorescent light by energy transfer. Fluoresces in vivo upon receiving energy from the Ca(2+)-activated photoprotein aequorin.

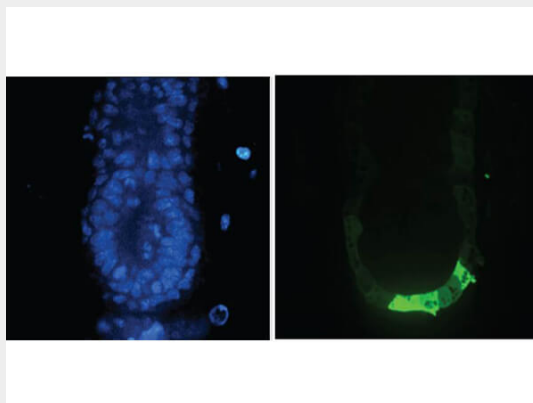
**Tissue Location**

Photocytes.

**Anti-GFP (GOAT) Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-GFP (GOAT) Antibody - Images**

Immunofluorescence Microscopy of Anti-GFP (GOAT) Antibody. Tissue: E5.5 Hex-GFP transgenic mouse embryo. Primary antibody: Goat anti-GFP was used at 1:500 dilution. Secondary antibody: Fluorochrome conjugated Anti-goat IgG secondary antibody at 1:10,000 for 45 min at RT. Staining: GFP as green fluorescent signal with DAPI blue counterstain.

**Anti-GFP (GOAT) Antibody - Background**

Green fluorescent protein is a 27 kDa protein produced from the jellyfish *Aequorea victoria*, which emits green light (emission peak at a wavelength of 509nm) when excited by blue light. GFP is an

important tool in cell biology research. GFP is widely used enabling researchers to visualize and localize GFP-tagged proteins within living cells without the need for chemical staining.