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Anti-GFP (CHICKEN) Antibody

GFP Antibody
Catalog # ASR5908

Specification

Anti-GFP (CHICKEN) Antibody - Product Information

Host	**Chicken**
Conjugate	**Unconjugated**
Reactivity	**GFP**
Clonality	**Polyclonal**
Application	**WB, IHC, E, I, LCI**
Application Note	**Polyclonal anti-GFP is designed to detect GFP and its variants. Anti-GFP Antibody has been tested by ELISA, dot blot, and western and is suitable in immunofluorescence. 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. Biotin conjugated polyclonal anti-GFP used in a sandwich ELISA is well suited to titrate GFP in solution using this antibody in combination with Rockland's monoclonal anti-GFP (600-301-215) using either form of the antibody as the capture or detection antibodies. However, use the monoclonal form only for the detection of wild type or recombinant GFP as this form does not sufficiently detect 'enhanced' GFP. The detection antibody is typically conjugated to biotin and subsequently reacted with streptavidin conjugated HRP (code # S000-03). Fluorochrome conjugated polyclonal anti-GFP can be used to detect GFP by immunofluorescence microscopy in prokaryotic (E.coli) and eukaryotic (CHO cells) expression systems and can detect GFP containing inserts. Significant amplification of signal is achieved using fluorochrome conjugated polyclonal anti-GFP relative to the fluorescence of GFP alone. For immunoblotting use either alkaline phosphatase or peroxidase conjugated polyclonal anti-GFP to detect GFP or GFP containing proteins on western blots.**
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 Aequorea victoria.
Preservative	**0.01% (w/v) Sodium Azide**

Anti-GFP (CHICKEN) Antibody - Additional Information

Purity
Anti-GFP IgY was prepared from egg yolks 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-Chicken 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 (CHICKEN) Antibody - Protein Information

Anti-GFP (CHICKEN) 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 Cytomety
- Cell Culture

Anti-GFP (CHICKEN) Antibody - Images

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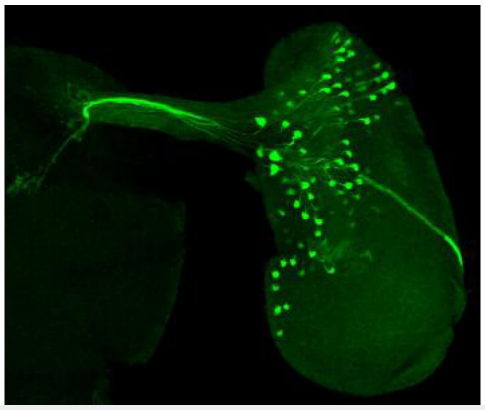

Immunofluorescence Microscopy of chicken anti-GFP antibody. Tissue: KruppleGAL4 driver line in Drosophila eye disc. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: anti-GFP antibody diluted 1:500 for 2 hr at RT. Secondary antibody: Alexa™488 conjugated anti-Chicken IgG at 1:300 for 1 hr at RT. Blocking: 5% NGS in PBS with 0.1% Triton X-100 for 15 min. Staining: recombinant tau-myc-GFP protein as green fluorescent signal.

Anti-GFP (CHICKEN) Antibody - Background

Anti-GFP antibody is designed for immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent western blotting. GFP antibody is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms. Chicken IgY lacks the classic "Fc" domain and does not bind to mammalian IgG Fc receptors. Thus resulting in lower backgrounds for western blotting, ELISA and Immunohistochemistry.