

AP09203HR-N**Polyclonal Antibody to FITC - HRP****Alternate names:**

Fluorescein Isothiocyanate

Quantity:

1 mg

Concentration:

1.0 mg/ml (by UV absorbance at 280 nm)

Background:

Fluorescein is a fluorophore commonly used to label proteins - protein-fluorescein conjugates are not usually susceptible to precipitation. In addition to its relatively high absorptivity, excellent fluorescence quantum yield and good water solubility, fluorescein has an excitation maximum of 494 nm that closely matches the 488 nm spectral line of the argon-ion laser, making it an important fluorophore for confocal laser-scanning microscopy and flow cytometry applications. Its fluorescence is pH sensitive and is significantly reduced below pH 7. Fluorescein emits most strongly between 500 and 550 nm, but it has a relatively broad emission spectrum reaching to over 600 nm. Several derivatives of fluorescein are commonly used, including FITC (fluorescein isothiocyanate), carboxylates and succinimidyl esters.

Host / Isotype:

Goat / IgG

Immunogen:

Fluorescein conjugated to Goat IgG

Format:**State:** Lyophilized purified IgG fraction**Purification:** Immunoaffinity Chromatography**Buffer System:** 0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2 containing 10 mg/ml BSA (IgG and Protease Free) as stabilizer and 0.01% (w/v) Gentamicin Sulfate as preservative**Label:** HRP – Horseradish Peroxidase**Reconstitution:** Restore with 1.0 ml of deionized water (or equivalent).**Applications:**

Suitable for immunoblotting (western or dot blot), ELISA, immunoperoxidase electron microscopy and immunohistochemistry as well as other peroxidase-antibody based enzymatic assays requiring lot-to-lot consistency.

This product is designed for immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent western blotting. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms.

Recommended Dilutions:

ELISA: 1/200,000.

Western Blot: 1/2,000-1/5,000.

Immunohistochemistry: 1/500-1/2,000.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This product was prepared from monospecific antiserum by immunoaffinity chromatography using Fluorescein coupled to sepharose beads followed by solid phase adsorption(s) to remove any unwanted reactivities.

Assay by Immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Goat Serum and Fluorescein conjugated IgG.

- 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.
Shelf life: one year from despatch.
- Caution:** Do **Not** Add Sodium Azide!
- Product Citations:** **Purchased from Acris:**
1. Hamzah J, Kotamraju VR, Seo JW, Agemy L, Fogal V, Mahakian LM, et al. Specific penetration and accumulation of a homing peptide within atherosclerotic plaques of apolipoprotein E-deficient mice. Proc Natl Acad Sci U S A. 2011 Apr 26;108(17):7154-9. doi: 10.1073/pnas.1104540108. Epub 2011 Apr 11. PubMed PMID: 21482787.
- General Readings:** 1. Farr & Nakane, J. Immunol. methods 47; 129-144. 1981. (Conjugation)