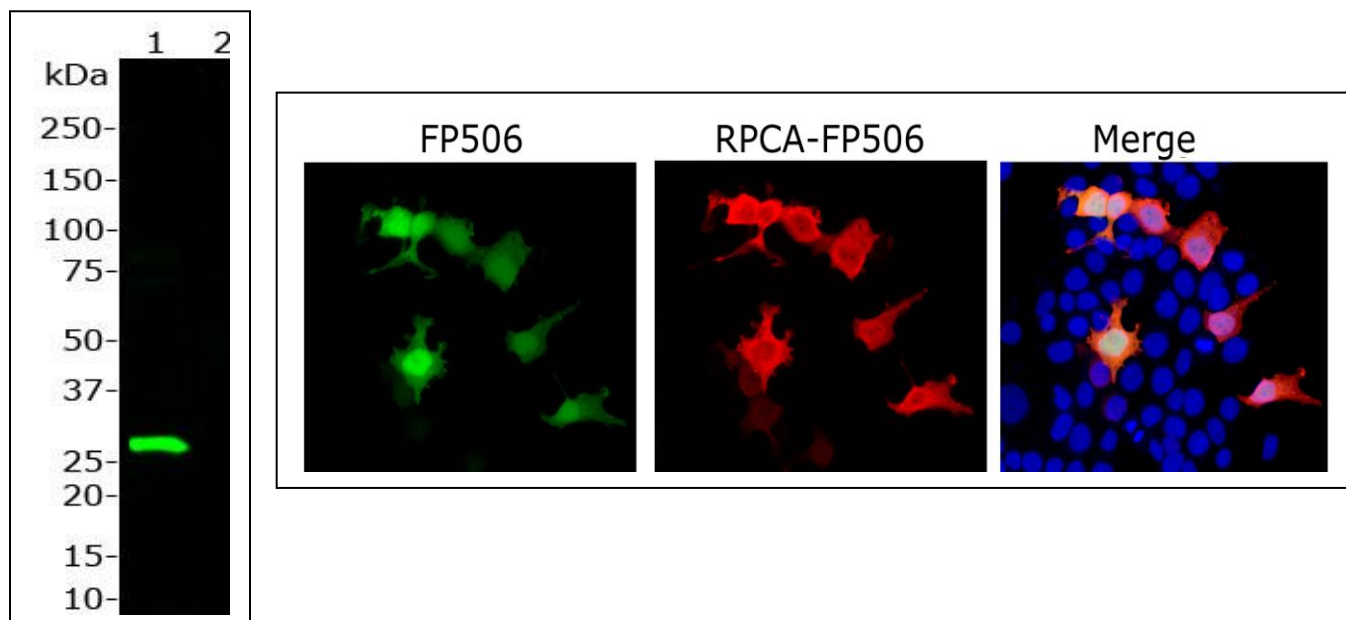


Catalogue# RPCA-FP506: Rabbit Polyclonal Antibody to: Green fluorescent protein Fp506

The Immunogen: Fluorescent proteins have become widely used in a variety of experimental paradigms since the demonstration of the utility of the first one, Green Fluorescent Protein (GFP) about 20 years ago (1). In 1999 Matz et al. characterized several fluorescent proteins from various coral species which were cloned and sequenced using degenerate primers based on the GFP sequence (2). One of these was Fp506, isolated from a *Zoanthus* coral. This protein proved to have spectral properties similar to GFP although the protein sequence was only distantly related.



Left: Blot of HEK293 cells transfected with pFin-EF1-FP506 vector (lane 1) and non-transfected HEK293 (lane 2) was probed with RPCA-FP506. There is a strong clean band at ~27 kDa corresponding to FP506 in FP506 - transfected HEK 293 cells, but not in non-transfected cells.

Right: Transfected HEK293 cells which overexpress protein FP506 were stained with RPCA-FP506 and viewed in the microscope. HEK293 Cells which are transfected with FP506 (left panel) are bright green. On staining with RPCA-FP506 in red (middle panel), cells appear orange (right panel). Most HEK293 cells are not transfected so only the nucleus of these cells can be visualized with a blue DNA stain. The red antibody staining is only seen in cells which express FP506, as expected, and the superimposition of the green and red signals results in the orange color.

Antibody Characteristics: Antibody was raised in rabbit, and provided as crude serum. Store at 4°C or -20°C. Avoid repeat freezing and thawing.

Suggestions for use: Try at dilutions of 1:1,000-1: 5,000 for immunofluorescence. For western blots try at 1:1,000.

References:

1: Chalfie M, Tu Y, Euskirchen G, Ward WW, Prasher DC. Green fluorescent protein as a marker for gene expression. [Science 263:802-5 \(1994\)](#).

2: Matz MV, Fradkov AF, Labas YA, Savitsky AP, Zaraisky AG, Markelov ML and Lukyanov SA. Fluorescent proteins from nonbioluminescent Anthozoa species [Nat. Biotechnol. 17: 969-973 \(1999\)](#).

Limitations: This product is for research use only and is not approved for use in humans or in clinical diagnosis.

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