



EGFP (Enhanced Green Fluorescent Protein)

Catalog number

E2213-98

Supplier

United States Biological

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.

Applications

Suitable for use in Western Blot and Immunohistochemistry. Other applications not tested.

Recommended Dilutions

Western Blot: 1:1000-1:5000

Immunohistochemistry: 1:1000-1:5000

Optimal dilutions to be determined by the researcher.

Excitation max (nm)

488

Emission max (nm)

509

Extinction coefficient (Cm-1M-1)

61000

Storage and Stability

Lyophilized powder may be stored at -20°C. Stable for 12 months at -20°C. Reconstitute with sterile ddH₂O. Aliquot to avoid repeated freezing and thawing. Store at -20°C. Reconstituted product is stable for 12 months at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

Immunogen

Recombinant EGFP

Formulation

Supplied as a lyophilized powder. Reconstitute in 100ul of sterile ddH₂O. Centrifuge to remove any insoluble material.

Purity

Serum

Specificity

Recognizes EGFP.

Product Type

For in vitro research use only, not for human or veterinary diagnostic or medical use

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Pab

Isotype

IgG

Grade

Serum

Applications

IHC WB

Crossreactivity

Rt

Storage

-20°C

Reference

1. Chalfie, M., Tu, Y. et al (1994) Science 263:802-805. 2. Tsien, R. Y. (1998) Annu Rev Biochem 67:509-544. 3. Dardalhon, V. et al (1999) Hum Gene Ther 10:5-14. 4. Kain, S. R. (1999) DDT 4:304-312.