

Anti-GFP(Green fluorescent protein) Polyclonal Antibody

Cat. #: 60B427

Description:

GFP(Green fluorescent protein) is an 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. It contains a chromophore consisting of modified amino acid residues. The chromophore is formed by autocatalytic backbone condensation between Xaa-N and Gly-(N+2), and oxidation of Tyr-(N+1) to didehydrotyrosine. Maturation of the chromophore requires nothing other than molecular oxygen.

Fluorescent proteins have become a useful and ubiquitous tool for making chimeric proteins, where they function as a fluorescent protein tag. Typically they tolerate N- and C-terminal fusion to a broad variety of proteins. They have been expressed in most known cell types and are used as a noninvasive fluorescent marker in living cells and organisms. They enable a wide range of applications where they have functioned as a cell lineage tracer, reporter of gene expression, or as a measure of protein-protein interactions.

Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to N-terminal residues of *Aequorea victoria* GFP (Green fluorescent protein)

References

- Prasher,D.C., et al, *Gene* 111 (2), 229-233 (1992)
Inouye,S. and Tsuji,F.I. et al, *FEBS Lett.* 341 (2-3), 277-280 (1994)
Cody,C.W., et al, *Biochemistry* 32 (5), 1212-1218 (1993)
Ormo,M., et al, *Science* 273 (5280), 1392-1395 (1996)
Yang,F., et al, *Nat. Biotechnol.* 14 (10), 1246-1251 (1996)
Wachter,R.M., et al, *Structure* 6 (10), 1267-1277 (1998)

Species: *Aequorea victoria*
Storage and Stability: at -20°C

Storage buffer:

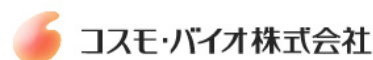
This antibody is stored in PBS, 0.01% sodium azide and 50% glycerol.

Preparation:

Purified by antigen-specific affinity chromatography.

Applications :

ELISA
Western Blotting (1µg/ml for 2hrs)



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