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Store at -20C
#2555

GFP Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source/Isotype: | UniProt ID: |
|---------------|-------------|------------------|-----------|-----------------|-------------|
| W, IHC-P | All | Transfected Only | 27 | Rabbit | #P42212 |

Product Usage Information

Application

Western Blotting
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:1250 - 1:5000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

GFP Antibody detects GFP, YFP, and CFP-tagged proteins exogenously expressed in cells. This antibody does not detect RFP-tagged proteins. Please note that the GFP, YFP, and CFP tags add approximately 27 kDa to the molecular weight of the fusion protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic GFP peptide. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Epitope tags are useful for the labeling and detection of proteins using immunoblotting, immunoprecipitation, and immunostaining techniques. Because of their small size, they are unlikely to affect the tagged protein's biochemical properties.

The green-fluorescent protein (GFP) functions as a bioluminescence energy transfer acceptor in the jellyfish *Aequorea* that maximally absorbs light at 395 nm and has an emission spectrum that peaks at 509 nm. GFP has become a very useful tool as a fusion protein that reports gene expression, traces cell lineages and defines subcellular protein localizations (1).

Background References

1. Miyawaki, A. et al. (2003) *Curr. Opin. Chem. Biol.* 7, 557-562.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

All: All Species Expected

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