

#2956 Store at -20°C

GFP (D5.1) Rabbit mAb



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

Applications: WB, W-S, IHC-P	Reactivity: All	Sensitivity: Transfected Only	MW (kDa): 27	Source/Isotype: Rabbit IgG	UniProt ID: #P42212
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Product Usage Information	Application Western Blotting Simple Western™ Immunohistochemistry (Paraffin)	Dilution 1:1000 1:10 - 1:50 1:100 - 1:400
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. For a carrier free (BSA and azide free) version of this product see product #34664.	
Specificity / Sensitivity	GFP (D5.1) Rabbit mAb 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	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of GFP.	
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 lineage and defines subcellular protein localization (1).	
Background References	1. Miyawaki, A. et al. (2003) <i>Curr Opin Chem Biol</i> 7, 557-62.	

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	WB: Western Blotting W-S: Simple Western™ IHC-P: Immunohistochemistry (Paraffin)
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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