

GFP (D5.1) Rabbit mAb (Biotinylated)

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Applications: W	Reactivity: All	Sensitivity: Transfected Only	MW (kDa): 27	Source/Isotype: Rabbit IgG	UniProt ID: #P42212
Product Usage Information	Application Western Blotting		Dilution 1:1000		
Storage	Supplied in 140 mM NaCl, 3 mM KCl, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at -20°C. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity	GFP (D5.1) XP® Rabbit mAb (Biotinylated) detects transfected levels of GFP or GFP-tagged proteins.				
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	W: Western Blotting
Cross-Reactivity Key	All: All Species Expected
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