

#2037 Store at -20C

GFP (D5.1) Rabbit mAb (HRP Conjugate)



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

Applications: WB	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	Dilution 1:1000
Storage	Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20°C. Do not aliquot the antibodies.	
Specificity / Sensitivity	GFP (D5.1) XP® Rabbit mAb (HRP Conjugate) detects GFP-tagged proteins exogenously expressed in cells.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of GFP. This antibody was conjugated to HRP under optimal conditions.	
Background	<p>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.</p> <p>The green-fluorescent protein (GFP) functions as a bioluminescence energy transfer acceptor in the jellyfish <i>Aequorea</i> 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).</p>	
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
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: <i>Xenopus</i> Z: zebrafish B: bovine Dg: dog Pg: pig Sc: <i>S. cerevisiae</i> Ce: <i>C. elegans</i> Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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