

#58203 Store at -20°C

Dinitrophenol (D1D6) Rabbit mAb (HRP Conjugate)



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

Applications: WB	Reactivity: All	Sensitivity: Transfected Only	Source/Isotype: Rabbit IgG
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Product Usage Information	Application Western Blotting	Dilution 1:10000
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 antibody.	
Specificity / Sensitivity	Dinitrophenol (D1D6) Rabbit mAb (HRP Conjugate) recognizes dinitrophenol-conjugated molecules.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with KLH-conjugated dinitrophenol.	
Product Description	This Cell Signaling Technology antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Dinitrophenol (D1D6) Rabbit mAb #14681.	
Background	The synthetic compound dinitrophenol (DNP) is a small hapten molecule that can be conjugated to proteins for use in immunoassays (1). Antibodies that recognize dinitrophenol will display strong binding affinity to DNP conjugated molecules, including nucleic acids and proteins. These DNP-conjugated compounds can be used in <i>in situ</i> hybridization, western, northern, and Southern blotting (1,2). Dinitrophenol is a commonly used insecticide and has been used as a treatment for weight loss (3).	
Background References	<ol style="list-style-type: none"> 1. Grzybowski, J. et al. (1993) <i>Nucleic Acids Res</i> 21, 1705-12. 2. Lehtovaara, P. et al. (1993) <i>PCR Methods Appl</i> 3, 169-75. 3. Goldgof, M. et al. (2014) <i>J Biol Chem</i> 289, 19341-50. 	

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: 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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