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#58203**Dinitrophenol (D1D6) Rabbit mAb (HRP Conjugate)**

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:
W	All	Transfected Only	Rabbit IgG
Product Usage Information	Application	Dilution	
	Western Blotting	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.		
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	W: Western Blotting
Cross-Reactivity Key	All: All Species Expected
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