

**Dinitrophenol (D1D6) Rabbit mAb**

**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:
W	All	Transfected Only	Rabbit IgG
<b>Product Usage Information</b>	<b>Application</b>	<b>Dilution</b>	
	Western Blotting	1:10000	
<b>Storage</b>	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.		
<b>Specificity/Sensitivity</b>	Dinitrophenol (D1D6) Rabbit mAb recognizes dinitrophenol-conjugated molecules.		
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with KLH-conjugated dinitrophenol.		
<b>Background</b>	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).		
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Grzybowski, J. et al. (1993) <i>Nucleic Acids Res</i> 21, 1705-12.</li> <li>2. Lehtovaara, P. et al. (1993) <i>PCR Methods Appl</i> 3, 169-75.</li> <li>3. Goldgof, M. et al. (2014) <i>J Biol Chem</i> 289, 19341-50.</li> </ol>		
<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).		
<b>Western Blot Buffer</b>	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.		
<b>Applications Key</b>	<b>W:</b> Western Blotting		
<b>Cross-Reactivity Key</b>	<b>All:</b> All Species Expected		
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