

**His-Tag (27E8) Mouse mAb (HRP Conjugate)**

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

<b>Applications:</b> W	<b>Reactivity:</b> All	<b>Sensitivity:</b> Transfected Only	<b>Source/Isotype:</b> Mouse IgG1
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	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>	
<b>Specificity/Sensitivity</b>	His-Tag (27E8) Mouse mAb (HRP Conjugate) detects recombinant proteins containing the 6xHis epitope tag. The antibody recognizes the 6xHis-tag fused to either the amino or carboxy terminus of targeted proteins in transfected cells.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a 6xHis synthetic peptide.	
<b>Description</b>	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 His-Tag (27E8) Mouse mAb #2366.	
<b>Background</b>	<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>A variety of plasmids contain DNA that encodes an amino-terminal tag consisting of six histidine (6xHis) residues followed by an extended multiple cloning site. The 6xHis tag on the expressed recombinant proteins allows for efficient coupling to Ni<sup>2+</sup> affinity resins and purification by single step chromatography (1).</p> <p>As is the case with other protein tag systems (2), this polyhistidine tag can often be cleaved at sites recognized by proteases such as thrombin and enterokinases to isolate the protein of interest (1).</p>	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Kroll, D.J. et al. (1993) <i>DNA Cell Biol</i> 12, 441-53.</li> <li>2. di Guan, C. et al. (1988) <i>Gene</i> 67, 21-30.</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>	<b>IMPORTANT:</b> 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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