

**MBP Tag (8G1) Mouse mAb**

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:
W, IP	All	Transfected Only	Mouse IgG1

<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunoprecipitation	<b>Dilution</b> 1:1000 1:200
<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>	MBP Tag (8G1) Mouse mAb detects recombinant proteins fused to maltose binding protein (MBP).	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with an MBP fusion protein.	
<b>Background</b>	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.  One commonly used system is the maltose-binding protein (MBP) (1). In this system, the target gene is inserted in the appropriate vector and expressed. Following purification using an amylose column, the MBP-target protein complex can be eluted from the column with maltose and cleaved with a specific protease to yield the purified target protein (2). An antibody to the MBP tag can also be used to isolate or detect expression of the protein.	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. di Guan, C. et al. (1988) <i>Gene</i> 67, 21-30.</li> <li>2. Kellermann, O.K. and Ferenci, T. (1982) <i>Methods Enzymol</i> 90 Pt E, 459-63.</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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
<b>Applications Key</b>	<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation
<b>Cross-Reactivity Key</b>	<b>All:</b> All Species Expected
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