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## Anti-MBP-Tag: Mouse Maltose Binding Protein-Tag Antibody

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Product Sheet CP10165

### Description

**BACKGROUND** Maltose Binding Protein, MBP, is commonly used to create fusion proteins. The tag has the size of 392 amino acids (roughly 42 KDa),<sup>1</sup> which, compared to other tags like the myc- or the FLAG-tag, is quite big. It is fused to the N-terminus of a protein. However, many commercially-available sources of MBP-tagged plasmids include a factor Xa site for cleavage of the MBP tag during protein purification.

A MBP-tag is often used to separate and purify as well as confirm expression of proteins that contain the MBP-fusion. MBP-fusion proteins can be produced in *Escherichia coli*, as recombinant proteins. The MBP part binds its substrate, amylose. Agarose beads can be coated with amylose, and such amylose-Agarose beads bind MBP-proteins. These beads are then washed, to remove contaminating bacterial proteins. Adding free amylose to beads that bind purified MBP-proteins will release the MBP-protein in solution. MBP-tag antibody is a useful tool for confirming protein expression, localization of expressed proteins in cells, as well as affinity-binding of MBP-tagged proteins.<sup>2</sup>

### REFERENCES

1. Guan, C. et al. *Gene* 67: 21–30, 1987
2. Riggs, P., in Ausubel, F.M. et al. (eds), *Current Prot. in Molecular Biol.* (1992) Greene Associates/Wiley Interscience, New York.

*Products are for research use only. They are not intended for human, animal, or diagnostic applications.*

175 KDa -  
135 KDa -  
100 KDa -  
75 KDa -



<sup>[1]</sup>  
(Click to Enlarge) Western Blot detection of MBP-Tag in bacterial lysates containing various MBP-Tagged proteins using MBP-Tag Antibody.

## Details

Cat.No.:	CP10165	
Antigen:	Purified recombinant MBP-Tag expressed in <i>E. coli</i> .	
Isotype:	Mouse IgG1	
Species & predicted species cross-reactivity ( ):	MBP-tag	
Applications & Suggested starting dilutions:*	WB	1:1000
	IP	1:50
	IHC	n/d
	ICC	1:200
	FACS	1:200
Predicted Molecular Weight of protein:	42 kDa	
Specificity/Sensitivity:	Detects MBP-Tag proteins without cross-reactivity with other related proteins.	
Storage:	Store at -20°C, 4°C for frequent use. Avoid repeated freeze-thaw cycles.	

\*Optimal working dilutions must be determined by end user.

## Products

## Resources/Documents

[Product Sheet CP10165](#) <sup>[2]</sup>

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## Contact Us

**Cell Applications, Inc**  
6455 Weathers Place  
San Diego, CA 92121  
Open M-F, 8am-5pm PST

**800-645-0848**  
**info@cellapplications.com**

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