

Product Specification Sheet

**Anti-Maltose Binding Protein (MBP) Antibodies**

<b>Cat. MBP15-R-100</b>	Recombinant purified MBP protein	<b>SIZE:</b> 100 ug
<b>Cat. MBP15-R-1000</b>	Recombinant purified MBP protein	<b>SIZE:</b> 1000 ug

Recombinant DNA technology allows the addition of short pieces of well-defined tags, "peptides" or proteins at the amino or c-terminus of target genes, which can provide 'affinity handles' designed to bind specific matrices. Therefore, tags enables a selective identification and purification of the protein of interest. The addition of a maltose binding protein (MBP) tag creates a stable fusion product that does not appear to interfere with the activity of the protein or with the cellular localization of the MBP-tagged product (1, 2). The expression of polypeptides in-frame with maltose binding protein (MBP) allows for their easy, single-step purification from bacterial extracts under mild conditions using amylose resin (2). This system utilize a specific protease digestion site to facilitate correct cleavage of the fusion protein (1). Thus, the MBP system incorporates a factor Xa cleavage site at the carboxy terminus of the MBP sequence (3) and cleavage by factor Xa separates MBP from its fusion protein. Many recombinant proteins have been engineered with MBP tags to facilitate the detection, isolation and purification of these proteins (1-6). Ant-MBP may be used in various immunoassay to identify the expression of a MBP fusion protein.

**Source of Antigen**

MBP is expressed in E. coli containing a 23-aa polylinker of pMAL-C2 and purified >95% (mol wt ~42 Kda). It is supplied in 1 mg (see lot sp cocn on the vial) or 100 ug (1 mg/ml) in a buffer (20 mM Tris, pH 7.2, 0.2M NaCl, 1 mM EDTA, and 50% glycerol. Store at -20oC for up to 6 months.

**Stability:** 6-12 months at -20oC or below.

**Shipping:** 4oC for solutions.

**Recommended Usage**

The product is suitable for use as standards in ELISA, dot blot, and Western blots.

General. References: Guan, C., et al., Gene, 67, 21 (1988), Maina, C., et al., Gene, 74, 365 (1988), Rodriguez, P., and Carrasco, L., Biotechniques, 18, 238 (1995), Narayanan, S., J. Chromatogr., 658, 237 (1994), Olins, P., and Lee, S., Curr. Opin. Biotechnol. 4, 520 (1993), Uhlen, M., and Moks, T., Meth. Enzymol., 185, 129 (1990).

\*This product is for In vitro research use only.

**Other Fusion tag antibodies available from ADI**

Catalog#	ProdDescription
MBP11-AP	Monoclonal Anti-Maltose binding protein (MBP)-AP conjugate
MBP11-C	Maltose binding protein (MBP) (fusion tag) control for western
MBP11-HRP	Monoclonal Anti-Maltose binding protein (MBP)-HRP
MBP11-M	Monoclonal Anti-Maltose binding protein (MBP) (fusion tag)
MBP12-A	Anti-Maltose binding protein (MBP) (fusion tag) IgG
MBP15-R-100	Maltose binding protein (MBP) (fusion tag) control for
MBP15-R-1000	Maltose binding protein (MBP) (fusion tag) control for
	Anti-MBP, Poly-His, GST, beta-Gal, VSV-G, HA-tag, and c-myc

Anti-MBP, Poly-His, GST, beta-Gal, VSV-G, Flag, HA-tag, and c-myc

Western Blot Recycling Kit (Strips blots in 5 minutes) and re-use the same blot with multiple antibodies

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