

## Monoclonal Antibody to Calmodulin Binding Protein Epitope Tag - Purified

<b>Alternate names:</b>	CBP
<b>Catalog No.:</b>	AM32502SU-N
<b>Quantity:</b>	0.1 ml
<b>Host / Isotype:</b>	Rabbit / IgG
<b>Recommended Isotype Controls:</b>	PP501P
<b>Clone:</b>	C16T
<b>Immunogen:</b>	KLH-conjugated, synthetic peptide corresponding to the Calmodulin Binding Protein (CBP) epitope tag found in several <i>E. coli</i> expression vectors.
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction <b>Purification:</b> Protein A Chromatography <b>Buffer System:</b> 0.07M Tris-glycine, pH 7.4, 0.105 M NaCl <b>Preservatives:</b> 0.035% Sodium Azide <b>Stabilizers:</b> 30% Glycerol
<b>Applications:</b>	<b>Immunoblot Analysis:</b> 1/5,000-1/15,000 dilution of this lot detected a recombinant protein containing the calmodulin binding protein epitope tag in lysates from transformed <i>E. coli</i> . <b>Control:</b> Samples containing the Calmodulin Binding Protein Epitope tag. <b>Quality Assurance:</b> Routinely evaluated by immunoblot on <i>E. coli</i> transformed with a plasmid encoding a Calmodulin Binding Protein Epitope tagged protein. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	Recognizes Recombinant proteins containing the Calmodulin Binding Protein Epitope Tag.
<b>Species Reactivity:</b>	<b>Tested:</b> Vertebrates.
<b>Storage:</b>	Store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Zheng CF, Simcox T, Xu L, Vaillancourt P. A new expression vector for high level protein production, one step purification and direct isotopic labeling of calmodulin-binding peptide fusion proteins. <i>Gene</i> . 1997 Feb 20;186(1):55-60. PubMed PMID: 9047344.
<b>Protocols:</b>	<b>Immunoblot Protocol</b> 1. Perform SDS-polyacrylamide gel electrophoresis (SDS-PAGE) on a transfected cell lysate sample (cell lysis buffer: 50 mM Tris-HCl, pH 7.4; 1% NP-40; 0.25% sodium deoxycholate; 150 mM NaCl; 1 mM EDTA; 1 mM PMSF; 1 µg/mL each aprotinin, leupeptin, pepstatin; 1 mM Na3VO4, 1 mM NaF) and transfer the proteins to nitrocellulose. Wash the blotted

nitrocellulose twice with water.

2. Block the blotted nitrocellulose in freshly prepared TBS containing 3% nonfat dry milk in TBS with 0.05% Tween®-20 (TBST-MLK) for 1 hour at room temperature with constant agitation.

3. Incubate the nitrocellulose with a 1:5,000-1:15,000 dilution of anti-Calmodulin Binding Protein Epitope Tag, diluted in freshly prepared TBST-MLK for 2 hours at room temperature with constant agitation.

4. Wash the nitrocellulose twice with water.

5. Incubate the nitrocellulose in the secondary reagent of choice (a goat anti-rabbit HRP-conjugated IgG, 1:5000 dilution was used) in TBST-MLK for 1 hour at room temperature with agitation.

6. Wash the nitrocellulose twice with water.

7. Wash the nitrocellulose in TBS-0.05% Tween®-20 for 3-5 minutes.

8. Rinse the nitrocellulose in 4-5 changes of water.

9. Use detection method of choice (enhanced chemiluminescence was used).

**Pictures:**

Lysates from *E. coli* (Lane 1) and *E. coli* transformed with a plasmid encoding a calmodulin binding protein epitope tagged protein (Lane 2) were probed with anti-Calmodulin Binding Protein Epitope Tag (1:16,000 dilution). Arrow indicates recombinant protein containing calmodulin binding protein epitope tag.

