

Maltose Binding Protein Rabbit mAb

Catalog No: #48666



Package Size: #48666-1 50ul #48666-2 100ul

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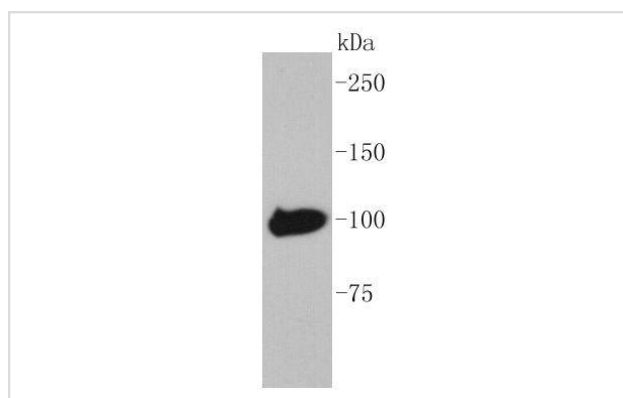
Description

Product Name	Maltose Binding Protein Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SR41-04
Purification	ProA affinity purified
Applications	WB
Species Reactivity	Escherichia coli
Immunogen Description	recombinant protein
Other Names	ECK4026 antibody JW3994 antibody Mal E antibody MalE antibody malJ antibody Maltodextrin binding protein antibody Maltose ABC transporter periplasmic protein antibody Maltose binding periplasmic protein antibody MMBP antibody Periplasmic maltose binding protein antibody
Accession No.	Swiss-Prot#:P0AEX9 P0AEY0
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

WB: 1:1,000-5,000

Images



Western blot analysis of Maltose Binding Protein on recombinant MBP-tag protein lysates using anti-Maltose Binding Protein antibody at 1/1,000 dilution.

Background

Plasmid vectors for the expression of coding regions of eukaryotic genes in bacterial, insect and mammalian hosts are in common usage; such expression vectors frequently encode hybrid fusion proteins consisting in part of prokaryotic and in part, eukaryotic specified proteins. One such system utilizes maltose binding protein (MBP), the 370 amino acid product of the *E. coli* mal E gene. Plasmid vectors have been constructed utilizing the MBP domain that allow the synthesis of high levels of MBP-fusion proteins that can be purified in a one step procedure by affinity chromatography cross linked amylose resin. Once bound to amylose, the MBP protein can then be separated from the target protein by cleavage by coagulation factor Xa at a specific four residue site. Alternatively, the intact fusion protein can be specifically eluted from the resin by the addition of excess free maltose.

Subsequent to elution, MBP fusion protein can be visualized either by Western blot analysis or immunoprecipitation using antibodies specific for the MBP-tag. Expression systems utilizing the MBP fusion tag include pCG-806fx and pMal vectors.

References

1. Ishida K et al. Immunolocalization of anti-hsf1 to the acetabular glands of infectious schistosomes suggests a non-transcriptional function for this transcriptional activator. PLoS Negl Trop Dis 8:e3051 (2014).
2. Beck J et al. Ubiquitylation-dependent localization of PLK1 in mitosis. Nat Cell Biol 15:430-9 (2013).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.