Anti-Maltose Binding Protein Antibody [SR41-04]

ET1602-46

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Species independent
Applications:	WB, IP
Molecular Wt:	Predicted band size: 43 kDa
Clone number:	SR41-04

Description: 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.

Immunogen: Synthetic peptide within Escherichia coli MBP aa 331-380 / 396.

Positive control: Recombinant MBP-tag protein.

Database links: SwissProt: P0AEX9 EscherichiaColi | P0AEY0 EscherichiaColi

Recommended Dilutions:

WB	1:1,000-1:5,000
IP	2-5 μg/ml.

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

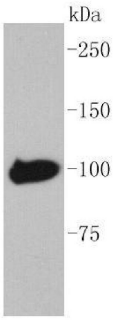

Fig1: Western blot analysis of Maltose Binding Protein on recombinant MBP-tag protein lysates using anti-Maltose Binding Protein antibody at 1/1,000 dilution.

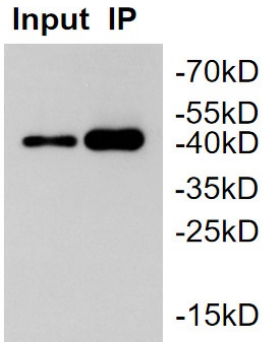

Fig2: MBP tag was immunoprecipitated in 2µg MBP Tag fusion protein lysate with ET1602-46 at 2 µg/20 µl agarose. Western blot was performed from the immunoprecipitate using ET1602-46 at 1/1,000 dilution. Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:50,000 dilution was used for 60 mins at room temperature.

Lane 1: MBP Tag fusion protein lysate (input).
Lane 2: ET1602-46 IP in MBP Tag fusion protein lysate.

Blocking/Dilution buffer: 5% NFDM/TBST

Background 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).