

Datasheet for ABIN7656516

anti-Maltose Binding Protein antibody (CF®594)



[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	Maltose Binding Protein (MBP)
Reactivity:	Various Species
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Maltose Binding Protein antibody is conjugated to CF®594
Application:	Western Blotting (WB)

Product Details

Purpose:	Maltose Binding Protein / MBP-probe(R29.6), CF594 conjugate
Immunogen:	MOS maltose binding protein fusion protein.
Clone:	R29-6
Isotype:	IgG1, kappa
Characteristics:	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 crosslinked 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

Product Details

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. Primary antibodies are available purified, or with a selection of fluorescent CF® Dyes and other labels. CF® Dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

Target Details

Target:	Maltose Binding Protein (MBP)
Alternative Name:	Maltose Binding Protein
Background:	Synonyms: ECK4026, JW3994, MalE, malJ, Maltodextrin binding protein, Maltose ABC transporter periplasmic protein, Maltose binding periplasmic protein, Periplasmic maltose binding protein Gene Symbol: Not Known
Molecular Weight:	40 kDa

Application Details

Application Notes:	Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Immunofluorescence: 0.5-1 µg/mL, Western blot 0.5-1.0 µg/mL, Optimal dilution for a specific application should be determined.
Comment:	Positive Control: Saos-2 cells. MBP fusion proteins.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.1 mg/mL
Buffer:	PBS, 0.1 % BSA, 0.05 % azide
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Protect from light
Storage:	4 °C
Storage Comment:	Stable at room temperature or 37°C for 7 days. Protect from light Store at 2 to 8°C. Protect fluorescent conjugates from light
Expiry Date:	24 months