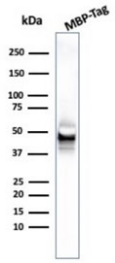
# MBP Tag Antibody / Maltose Binding Protein / malE [clone R29.6] (V8292)

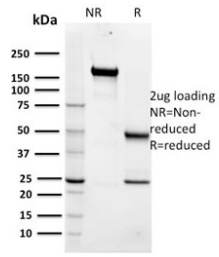
| Catalog No. | Formulation | Size |
|---|---|---|
| V8292-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V8292-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V8292SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

## Bulk quote request

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | MBP fusion proteins |
| **Format** | Purified |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | R29.6 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | P0AEX9 |
| **Applications** | Immunofluorescence : 1-2ug/ml<br>Western Blot : 1-2ug/ml |
| **Limitations** | This MBP tag antibody is available for research use only. |




Western blot testing of MBP-tagged recombinant protein with MBP tag antibody.




SDS-PAGE analysis of purified, BSA-free MBP tag antibody (clone R29.6) as confirmation of integrity and purity.

## 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 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 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.

## Application Notes

Optimal dilution of the MBP tag antibody should be determined by the researcher.

## Immunogen

MOS maltose binding protein fusion protein was used as the immunogen for this MBP tag antibody.

## Storage

Store the MBP tag antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com