

## Mouse Monoclonal Antibody to

# Maltose Binding Protein (MBP)

## clone 6E4

**Order No.:** 0101-100/MBP-6E4  
**Size (µg)** 100  
**Lot No.:** 0101S

[www.nanotools.de](http://www.nanotools.de)

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Isotype	Species Reactivity	Applications	Mol. Weight	Ref. Cell Line	Epitope	Immunogen
IgG1		WB, ELISA	43 kDa			MBP (Maltose Binding Protein)

### Background and Specificity:

Maltose Binding Protein (MBP), the *E. coli* malE gene product, is widely used as fusion partner for the expression of recombinant proteins.

**Mab MBP-6E4** can be used for the detection of MBP fusion proteins in Western blot and ELISA applications.

### Related Products

**Purification:** The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.

**Formulation:** lyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.

**Reconstitution:** Reconstitute with 1 ml H<sub>2</sub>O (15 min, RT).

**Stability:** For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.

**Avoid repeated freeze / thaw cycles.**

**Positive Control:** none

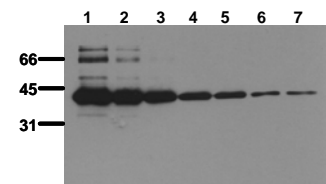
**Immunoblotting:** 0.5 µg/ml for HRPO/ECL detection.  
**Recommended blocking buffer:** Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.

**Immunoprecipitation:** ND

**Immunocytochemistry:** ND

**ELISA:** use at 0.05 µg/ml

**All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.**



### Antibody sensitivity

MBP was separated by SDS-PAGE and transferred to PVDF membranes. Immunoblots were probed with mab 6E4 (0.5 µg/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec). lane 1: 100ng MBP, lane 2: 50ng, lane 3: 25ng, lane 4: 10ng, lane 5: 5ng, lane 6: 2ng, lane 7: 1ng