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## SM3002P Monoclonal Antibody to Beta-galactosidase tag (Center) -

**Purified** 

Alternate names: Beta-Gal Fusion Protein, Beta-Gal tag, JW0335, Lactase, b0344, lacZ tag

Quantity: 0.1 mg
Concentration: 1.0 mg/ml

Background: Beta galactosidase is coded by a gene (lac z) in the lac operon of Escherichia coli. It is

a metalloenzyme that splits lactose into glucose and galactose. It hydrolyzes terminal, non-reducing beta-D-galactose residues in beta-D-galactosides.

Activation by cations seems to be substrate dependent. K+, Na+, NH4+, Rb+, Cs+ and

Mn++ all activate enzyme activity based upon the substrate used.

Uniprot ID: P00722

NCBI: AP 000996.1

GenelD: <u>945006</u>

Host / Isotype: Mouse / IgG1
Recommended Isotype AM03095PU-N

**Controls:** 

Clone: BG-02

Immunogen: Beta-Galactosidase purified from *E. coli* 

Format: State: Liquid purified Ig fraction from Ascites (> 95% pure by SDS-PAGE)

Purification: Precipitation methods Buffer System: PBS, pH~7.4 Preservatives: 15 mM Sodium Azide

Applications: Western blot.

Immunocytochemistry.

Other applications not tested. Optimal dilutions are dependent on conditions and

should be determined by the user.

Specificity: The antibody recognizes a non-catalytic centre epitope of beta-Galactosidase from E.

coli.

**Storage:** Store undiluted at 2-8°C.

DO NOT FREEZE!

Shelf life: one year from despatch.

Product Citations: Originator or purchased from resellers:

1. Slavícková A, Dráber P, Dráberová E, Dráber P, Viklický V. A novel panel of monoclonal antibodies against beta-galactosidase of Escherichia coli and its versatility for detection of recombinant expression products. Folia Biol (Praha).

1992;38(6):350-7. PubMed PMID: 1284241.

2. Dráber P, Slavícková A, Sládecek M, Viklický V. Monoclonal antibodies to Escherichia coli beta-galactosidase and their use for detection and purification of recombinant expression products. Hybridoma. 1992 Jun;11(3):385-90. PubMed PMID:



1500073.

**Pictures:** 

**Western blot** of purified *E. coli* betagalactosidase sample; reduced sample, immunostained by mAb BG-02 and goat anti-mouse IgG (H+L)-HRP conjugate.

