

# beta Galactosidase Monoclonal Antibody (DC1 4C7)

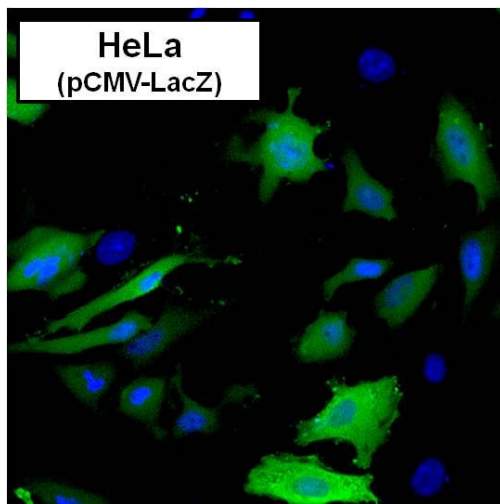
Product Details	
Size	100 µg
Species Reactivity	Bacteria
Host/Isotope	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	DC1 4C7
Conjugate	Unconjugated
Immunogen	Full length E. coli beta Galactosidase
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage Conditions	-20°C
RRID	AB_2536860

Applications	Tested	Dilution	Published
ELISA (ELISA)	✓	Assay dependent	1 Publication
Immunocytochemistry (ICC)	✓	1:50-1:100	
Immunofluorescence (IF)	✓	1:50 - 1:100	
Western Blot (WB)	✓	1:500	

## Product Specific Information

Western blot analysis of MA1-152 detects recombinant E. coli beta Galactosidase at ~110 kDa. This antibody also detects E. coli beta Galactosidase in pCMV-lacZ transfected HeLa cells.

## Product Images For beta Galactosidase Monoclonal Antibody (DC1 4C7)

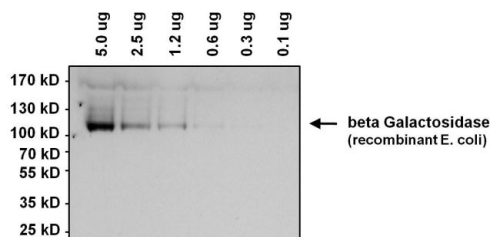


### beta Galactosidase Antibody (MA1-152) in IF

Immunofluorescent analysis of *E. coli* beta-Galactosidase (green) in pCMV-LacZ transfected HeLa cells. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature. Cells were blocked with 1% Blocker BSA (Product # 37525) for 15 minutes at room temperature. Cells were probed with a beta-Galactosidase monoclonal antibody (Product # MA1-152) at a dilution of 1:50 for at least 1 hour at room temperature, washed with PBS, and incubated with a DyLight 488-conjugated goat anti-mouse IgG secondary antibody (Product # 35502). Nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ToxInsight Instrument at 20X magnification.

### beta Galactosidase Antibody (MA1-152) in WB

Western blot analysis of beta-Galactosidase was performed by loading various amounts of full length recombinant *E. coli* beta-Galactosidase and 10  $\mu$ L of PageRuler Prestained Protein Ladder (Product # 26616) onto a 4-20% Tris-HCl polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked with 5% BSA/TBST for 1 hour. The membrane was probed with a beta-Galactosidase monoclonal antibody (Product # MA1-152) at a dilution of 1:500 overnight at 4°C on a rocking platform, washed in TBS-0.1% Tween-20, and probed with a goat anti-mouse IgG-HRP secondary antibody (Product # 31430) at a dilution of 1:20,000 for 1 hour. Chemiluminescent detection was performed using SuperSignal West Dura (Product # 34075).



## 1 Reference

### ELISA (1)

#### Microbial cell factories

#### A novel one-step expression and immobilization method for the production of biocatalytic preparations.

"MA1-152 was used in ELISA to discuss biocatalytic preparations for industrial applications"

Authors: Sührer I, Langemann T, Lubitz W, Weuster-Botz D, Castiglione K

#### Species

Not Applicable

#### Dilution

Not Cited

#### Year

2015

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